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T&B® Cable Tray

Metallic cable tray

A

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Section A

T&B Cable tray
Introduction

Cable tray wiring systems offer significant advantages over conduit pipe and other wiring systems. Cable tray is more cost efficient, more reliable, more adaptable to changing needs and easier to maintain. In addition, its design does not contribute to potential safety problems associated with other wiring systems.

The benefits of cable tray
An evaluation of the costs and benefits of various wiring systems should be done in the design phase. Avoiding the system selection process or deferring it until construction, often results in higher costs, scheduling delays and a system that will not meet future needs.

Selection of a wiring system that is not the most suitable for a particular application in terms of cost, potential corrosion and electrical considerations can lead to numerous problems, including excessive initial cost, poor design, faulty installation, extra maintenance, future power outages and unnecessary safety concerns.

Cost efficiency
Extensive experience has shown that the overall cost of a cable tray installation (including conductor, material and installation labor costs) may be as much as 60% less than a comparable conduit wiring system.

Cable tray systems, including trays, supports, fittings and other materials, are generally much less expensive than conduit wiring systems. In addition, major cost savings are generated by the relative ease of installation. Labor costs of installing a cable tray system can run up to 50% less. Total cost savings will vary with the complexity and size of the installation.

Direct cost savings are easy to calculate during the design phase of an installation, but the enormous advantages of cable tray may accrue only over time. The system's reliability, adaptability, ease of maintenance and inherent safety features result in many other types of cost savings, including:
- Lower engineering and maintenance costs
- Less need to reconfigure system as needs change
- Less down time for electrical and data handling systems
- Fewer environmental problems resulting from loss of power to essential equipment

Reliability
Cable tray systems offer unsurpassed reliability, resulting in less maintenance and down time – important considerations for all installations and especially for industries such as data communications and financial services.

In addition, since cable tray is an open system, moisture build-up problems are eliminated and damage to cable insulation during installation is also greatly reduced.

Adaptability
A major advantage of cable tray systems derives from their adaptability to new needs and technology. The pace of change in the economy, constantly shifting competitive pressures and rapid introduction of innovative technologies are all accelerating. More than ever before, businesses must be prepared to quickly expand facilities, change products or introduce new processes. The flexibility of the wiring system is a key consideration.

Modifying a cable tray system or adding cables to meet new needs is relatively easy because cables can enter or exit a tray at any point, and initial design considerations can build in extra capacity as part of the planning process. Cable tray's inherent adaptability allows rewiring for future expansion, building redesign or new technologies without disruption or need to replace the entire wiring system.

Maintenance
Cable tray wiring systems require less maintenance than conduit systems. When maintenance is necessary, it is easier, less time-consuming and less labor intensive.

The physical condition and status of both the cable tray and cables can be inspected visually, something that is not possible with conduit systems. In addition, it is also easy to see if there is sufficient capacity in the trays for additional cables. As was noted above, changing or adding cables can also be accomplished easily.

Another comparative benefit of cable tray systems is that they do not act as channels of moisture paths, as conduit wiring systems do. Conduit systems tend to collect condensation resulting from changes in temperature and then channel the moisture to electrical equipment, where it can lead to corrosion and failure.

Cable tray and tray cable are also less susceptible to fire loss than conduit. An external fire usually results in damage to only a few feet of a cable tray system, while wire insulation inside a conduit suffers significant damage and thermoplastic insulation may actually fuse to the conduit.

Safety
Cable wiring systems lack the inherent safety concerns of conduit systems.

By its nature, a conduit wiring system can serve as a flow-through for corrosive, explosive and toxic gases in the same way that it channels moisture.

The conduit installation process can also present a safety issue for electricians. The process requires that a conduit system be installed from one enclosure to another before pulling in the conductors, leaving the electricians exposed to any live, energized equipment that may be in the enclosures. In contrast, installers can pull tray cables from near one termination enclosure to the next before they are inserted into the enclosures and then terminated.

Finally, in installations where cable tray can be used as the equipment grounding conductor (per NEC standards), it is easy to visually check the system components as well as conduct checks for electrical continuity.

Technical information
Glossary of terms

Accessories
Devices that are used to supplement the function of straight sections and fittings, and include such items as drop outs, covers, conduit adapters, hold-down devices and dividers.

Cable tray connector
A device that joins cable tray straight sections or fittings, or both. The basic types of connectors are:
- Rigid
- Expansion
- Adjustable
- Reducer

Cable tray fitting
A device that is used to change the direction, elevation or width of a cable tray system.

Cable tray support
A device that provides adequate means for supporting cable tray sections or fittings, or both. The basic types of cable tray supports are:
- Cantilever bracket
- Trapeze
- Individual and suspension

Channel cable tray
A prefabricated metal structure consisting of a one-piece ventilated bottom or solid bottom channel section, or both, not exceeding 6 inches in width.

Ladder cable tray
A prefabricated metal structure consisting of two longitudinal side rails connected by individual transverse members.

Solid bottom cable tray
A prefabricated metal structure consisting of a bottom with no openings within integral or separate longitudinal side rails.

One-piece/unit cable tray
A prefabricated metal structure consisting of a one-piece solid or ventilated bottom.

Horizontal cross
A cable tray fitting that is suitable for joining cable trays in four directions at 90° intervals in the same plane.

Horizontal bend
A cable tray fitting that changes the direction in the same plane.

Horizontal tee
A cable tray fitting that is suitable for joining cable trays in three directions at 90˚ intervals in the same plane.

Metallic cable tray system
A metallic assembly of cable tray straight sections, fittings, and accessories that forms a rigid structural system to support cables.

Reducer
A cable tray fitting that is suitable for joining cable trays of different widths in the same plane.
A straight reducer has two symmetrical offset sides. A right-hand reducer, when viewed from the large end, has a straight side on the right.
A left-hand reducer, when viewed from the large end, has a straight side on the left.

Straight section
A length of cable tray that has no change in direction or size.

Ventilated bottom
A cable tray bottom having openings sufficient for the passage of air and utilizing 75% or less of the plane area of the surface to support cables.

Vertical bend
A cable tray fitting that changes direction to a different plane. An inside vertical elbow changes direction upward from the horizontal plane.
An outside vertical elbow changes direction downward from the horizontal plane.

Technical information
Unique design features

—
01 **I-beam side rail (aluminum)**
Maximum structural strength.
—
02 **Alternating rungs (aluminum and steel)**
Alternating rungs for top and bottom accessory installation and cable lashing.
—
03 **Ty-Rap® cable tie slots (aluminum and steel)**
Exclusive Ty-Rap cable tie slots 1 in. center to center on all ladder ventilated and solid bottoms. Secure cables without kinks and keep cables uniform.
—
04 **Extra wide rung design (aluminum and steel)**
Extra wide rung design for maximum cable bearing surface.
—
05 **Snap-in splice plates (aluminum)**
Snap-in aluminum splice plates for easy installation.
—
06 **Continuous open slot (aluminum and steel)**
Rungs have continuous open slot to accept standard strut pipe clamps and provide complete barrier strip adjustability.
—
07 **Added support (aluminum and steel)**
Aluminum and steel solid bottoms are constructed with a flat sheet for added cable protection.
—
08 **Adjustable barrier strips (aluminum and steel)**
Barrier strips are fully adjustable (side to side) for use in straight sections and fittings.

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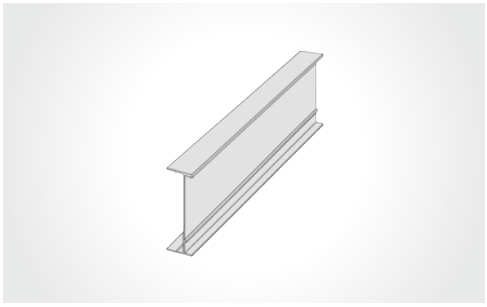

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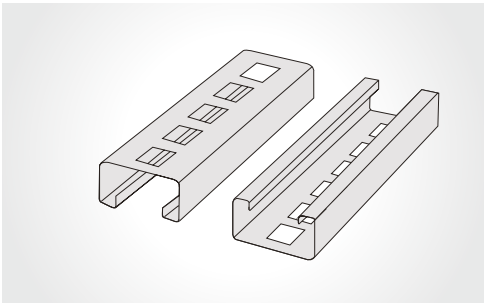

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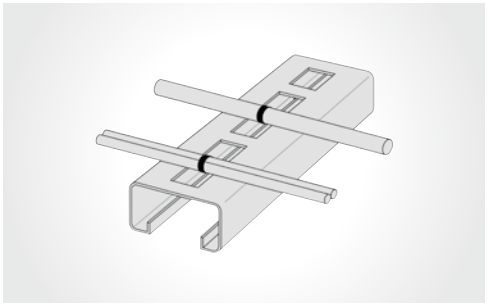

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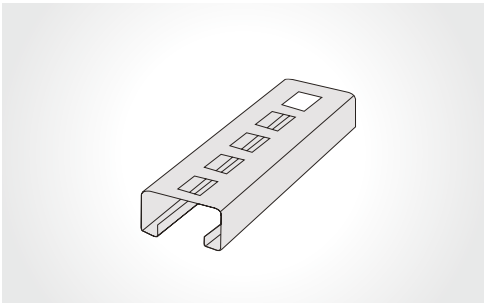

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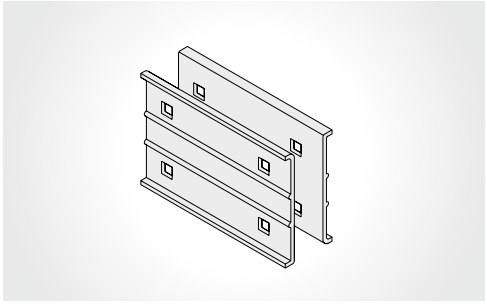

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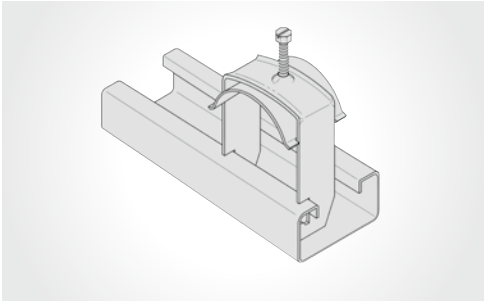

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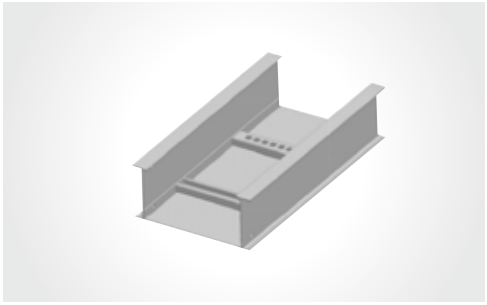

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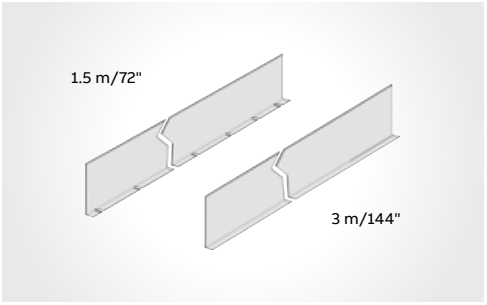
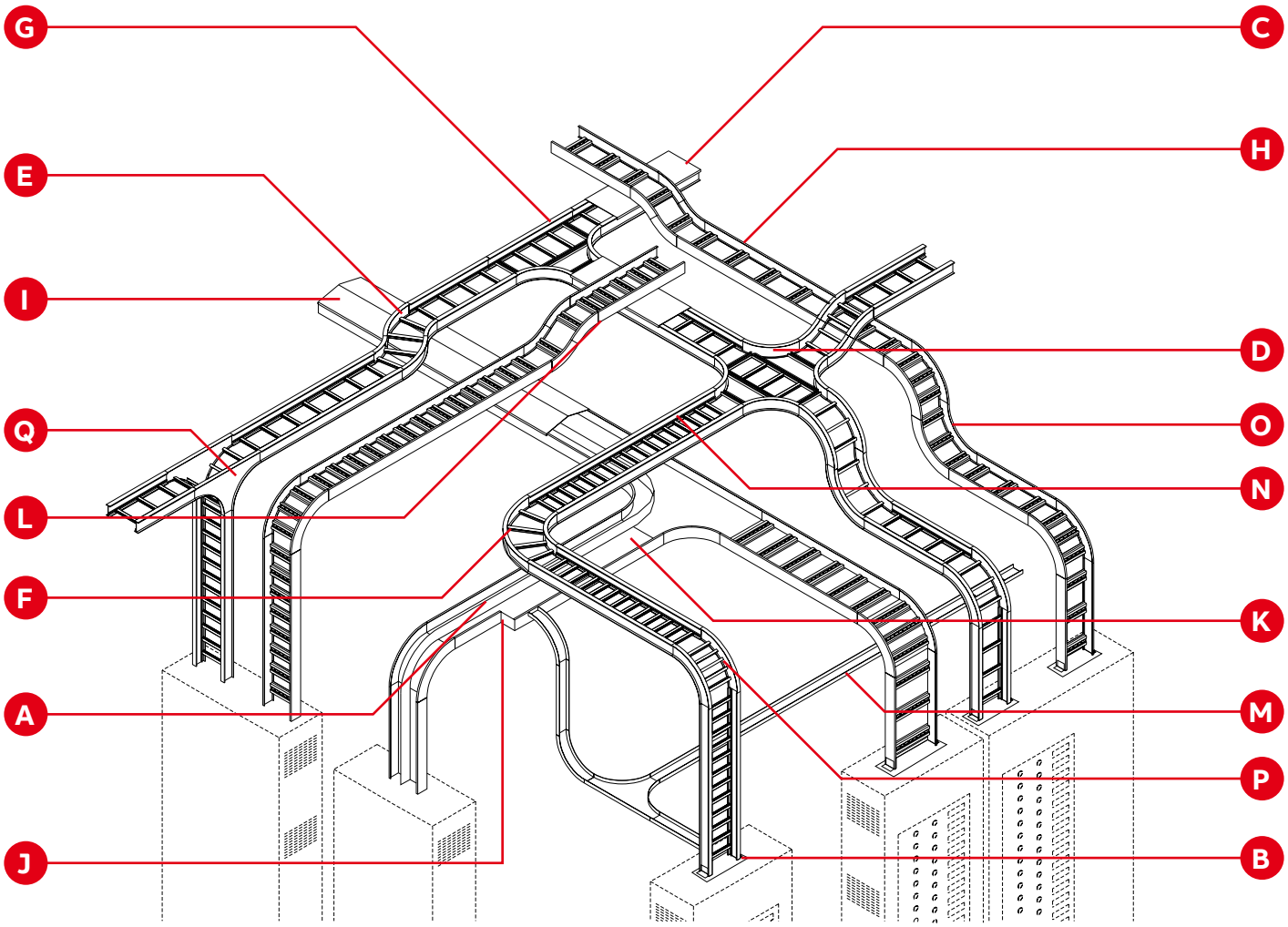


Technical information
Sample plant layout



Application
Commercial:
- Schools
- Hospitals
- Office buildings
- Airports
- Casinos
- Stadiums

Industrial:
- Petrochemical plants
- Automotive plants
- Paper plants
- Food processing
- Power plants
- Refineries
- Manufacturing
- Mining

Legend
A – Barrier strip
B – Box connector
C – Flat cover
D – Horizontal cross
E – Horizontal 45˚
F – Horizontal 90˚
G – Horizontal tee
H – Ladder tray
I – Peaked cover
J – Right reducer
K – Solid tray
L – Splice connector
M – Solid channel tray
N – Ventilated tray
O – Vertical 90˚ inside
P – Vertical 90˚ outside
Q – Vertical tee

Technical information
Selection process

A number of basic decisions must be made before a cable tray system can be specified. ABB has developed a simple eight-step process to guide you in the process:

1. Select material and finish **(see page A10)**
2. Select the tray load class **(see page A16)**
3. Select the tray type **(see page A23)**
4. Select the tray size **(see page A23)**
5. Select the fittings **(see page A24)**
6. Consider deflection **(see page A25)**
7. Consider thermal expansion and contraction **(see page A28)**
8. Electrical grounding capacity **(see page A29)**

Each step is described in detail in the following pages. For many applications, however, you may also have to take the following into account:

- **Weight of the installation**, which affects the cost of the support structure and the ease of installation.
- **Corrosion resistance of the material** is one of the most important selection criteria. Cable tray materials may not respond the same way in different environments. Chemicals or combinations of chemicals have a corrosive effect on some materials that can be compounded by temperature or even the speed at which the corrosive elements contact the cable tray. For example, some grades of stainless steel may be resistant to salt water at high flow rates (perfect for heat exchangers), while exhibiting some corrosion pitting in standing salt water. Only the designer can quantify the various elements that affect the corrosion resistance of the cable tray system in a specific application. While ABB can provide guidance, the designer is responsible for the final selection. For more information, see “Corrosion” section.
- **Melting point and flammability rating** are primarily concerns for nonmetallic tray. Local building codes may restrict the use of a given product if certain performance levels are not met. Check with the appropriate inspection authorities before specifying the product.
- **Relative cost** varies dramatically, including material costs that float with the commodity index. For example, stainless steel prices may vary significantly according to daily changes in the market.

Selection process
1. Select material and finish

The most suitable material and finish for your application will depend on cost, the potential for corrosion and electrical considerations. ABB offers cable tray systems fabricated from corrosion-resistant steel, stainless steel and aluminum alloys along with corrosion-resistant finishes, including zinc and epoxy. Special paint is also available.

Materials

Most cable tray systems are fabricated from a corrosion-resistant metal (stainless steel or an aluminum alloy) or from a metal with a corrosion-resistant finish (zinc or epoxy). The choice of material for any particular installation depends on the installation environment (corrosion and electrical considerations) and cost.

Aluminum
Cable trays fabricated of extruded aluminum are often used for their high strength-to-weight ratio, superior resistance to certain corrosive environments and ease of installation. They also offer the advantages of being light weight (approximately less than 50% that of a steel tray) and maintenance-free, and since aluminum cable trays are non-magnetic, electrical losses are reduced to a minimum.

ABB cable tray products are formed from the 6063 series alloys, which by design are copper-free alloys for marine applications. These alloys contain silicon and magnesium in appropriate proportions to form magnesium silicide, allowing them to be heat treated. These magnesium silicon alloys possess good formability and structural properties, as well as excellent corrosion resistance.

The unusual resistance to corrosion, including weathering, exhibited by aluminum is due to the self-healing aluminum oxide film that protects the surface. Aluminum's resistance to chemicals in the application environment should be tested before installation.

Steel
ABB steel cable trays are fabricated from structural quality steels using a continuous roll-formed process. Forming and extrusions increase the mechanical strength.

The main benefits of steel cable tray are its high strength and low cost.

The rate of corrosion will vary depending on many factors such as the environment, coating or protection applied and the composition of the steel. ABB offers finishes and coatings to improve the corrosion resistance of steel. These include pregalvanized, hot dip galvanized (after fabrication), epoxy and special paints.

Stainless steel
Stainless steel offers high yield strength and high creep strength, at high ambient temperatures.

ABB stainless steel cable tray is roll-formed from AISI Type 316/316L stainless steel.

Stainless steel is resistant to dyestuffs, organic chemicals, and inorganic chemicals at elevated temperatures. Higher levels of chromium and nickel and a reduced level of carbon serve to increase corrosion resistance and facilitate welding. Type 316 includes molybdenum to increase high temperature strength and improve corrosion resistance, especially to chloride and sulfuric acid.

Finishes

Electrogalvanized coatings
The most widely used coating for cable tray is galvanizing. It is cost-effective, protects against a wide variety of environmental chemicals and is self-healing if an area becomes unprotected through cuts or scratches.

Steel is coated with zinc through electrolysis by dipping steel into a bath of zinc salts. A combination of carbonates, hydroxides and zinc oxides forms a protective film to protect the zinc itself. Resistance to corrosion is directly related to the thickness of the coating and the harshness of the environment.

Pregalvanized
Pregalvanized, also known as mill-galvanized or hot dip mill-galvanized, is produced in a rolling mill by passing steel coils through molten zinc. These coils are then slit to size and fabricated.

Areas not normally coated during fabrication, such as cuts and welds, are protected by neighboring zinc, which works as a sacrificial anode. During welding, a small area directly affected by heat is also left bare, but the same self-healing process occurs.

G90 requires a coating of 0.90 ounces of zinc per square foot of steel, or 0.32 ounces per square foot on each side of the metal sheet. In accordance with A653/A653M-06a, pregalvanized steel is not generally recommended for outdoor use or in industrial environments.

Hot-dipped galvanized
After the steel cable tray has been manufactured and assembled, the entire tray is immersed in a bath of molten zinc, resulting in a coating of all surfaces, as well as all edges, holes and welds.

Coating thickness is determined by the length of time each part is immersed in the bath and the speed of removal. Hot-dip galvanizing after fabrication creates a much thicker coating than the pregalvanized and electrogalvanized process, a minimum of 3.0 ounces per square foot of steel or 1.50 ounces per square foot on each side of the sheet (according to ASTMA123, grade 65).

The process is recommended for cable tray used in most outdoor environments and many harsh industrial environment applications.

Other coatings
Epoxy and special paint coatings are available on request.

Corrosion

Corrosion of metal occurs naturally when the metal is exposed to chemical or electrochemical attack. The atoms on the exposed surface of the metal come into contact with a substance, leading to deterioration of the metal through a chemical or electrochemical reaction. The corroding medium can be a liquid, gas or solid.

Although all metals are susceptible to corrosion, they corrode in different ways and at various speeds. Pure aluminum, bronze, brass, most stainless steels and zinc corrode relatively slowly, but some aluminum alloys, structural grades of iron and steel and the 400 series of stainless steels corrode quickly unless protected.

Electrochemical corrosion
Electrochemical corrosion is caused by an electrical current flow between two dissimilar metals, or if a difference of potential exists, between two areas of the same metal surface.

The energy flow occurs only in the presence of an electrolyte, a moist conductor that contains ions, which carry an electric charge. Solutions of acids, alkalies and salts contain ions, making water – especially salt water – an excellent electrolyte.

Common types of corrosion

Galvanic corrosion
Galvanic corrosion results from the electrochemical reaction that occurs in the presence of an electrolyte when two dissimilar metals are in contact. The strength of the reaction and the extent of the corrosion depend on a number of factors, including the conductivity of the electrolyte and potential difference of the metals. The metal with less resistance becomes anodic and more subject to corrosion, while the more resistant becomes cathodic.

The galvanic series table, developed through laboratory tests on industrial metal alloys in sea water (a powerful electrolyte), list metals according to their relative resistance to galvanic corrosion. Those less resistant to galvanic corrosion (anodic) are at the top, and those more resistant (cathodic) are at the bottom.

The metals grouped together are subject to only slight galvanic effect when in contact, and metals at the top will suffer galvanic corrosion when in contact with metals at the bottom (in the presence of an electrolyte). The farther apart two metals are on the table, the greater the potential corrosion.

Galvanic series table

Anodic end	
1. Magnesium	23. Type 410 stainless steel (passive)
2. Magnesium alloys	24. Type 316 stainless steel (passive)
3. Zinc	25. 50Pb-50Sn solder
4. Galvanized steel	26. Silver (passive)
5. Naval brass (C46400)	27. Type 304 stainless steel (active)
6. Aluminum 5052H	28. Type 316 stainless steel (active)
7. Aluminum 3004	29. Lead
8. Aluminum 3003	30. Tin
9. Aluminum 1100	31. Muntz metal (C28000)
10. Aluminum 6053	32. Manganese bronze (C67500)
11. Alclad aluminum alloys	33. Nickel (active)
12. Aluminum bronze (C61400)	34. Inconel (active)
13. Cadmium	35. Cartridge brass (C26000)
14. Copper (C11000)	36. Admiralty metal (C44300)
15. Aluminum 2017	37. Red brass (C23000)
16. Aluminum 2024	38. Silicon bronze (C 65100)
17. Low-carbon steel	39. Copper nickel, 30% (C71500)
18. Wrought iron	40. Nickel (passive)
19. Cast iron	41. Inconel (passive)
20. Monel	42. Gold
21. Ni-resist	43. Platinum
22. Type 304 stainless steel (passive)	**Cathodic end**

Pitting corrosion
Pitting corrosion is localized and is identified by a cavity with a depth equal to or greater than the cavity's surface diameter. Pits may have different sizes and depths and most often appear randomly distributed. Aluminum and stainless steels in chloride environments are especially susceptible to pitting.

Pitting begins when surface defects, foreign particles or other variations in the metal lead to fixation of anodic (corroded) and cathodic (protected) sites on the metal surface. Acidic metal chlorides, which form and accumulate in the pit as a result of anodes attracting chloride ions, accelerate the pitting process over time. The nature of pitting often makes it difficult to estimate the amount of damage.

Crevice corrosion
Crevice corrosion is a specialized form of pitting that particularly attacks metals or alloys protected by oxide films or passive layers. It results from a relative lack of oxygen in a crevice, with the metal in the crevice becoming anodic to the metal outside. For the crevice to corrode, it must be large enough to admit the electrolyte, but small enough to suffer oxygen depletion.

Erosion corrosion
While erosion is a purely mechanical process, erosion corrosion combines mechanical erosion with chemical or electrochemical reaction. The process is accelerated by the generally rapid flow of liquid or gas over an eroded metal surface, removing dissolved ions and solid particles. As a result, the metal surface develops grooves, gullies, waves, rounded holes and valleys.

Erosion corrosion can damage most metals, especially soft ones like aluminum that are susceptible to mechanical wear, and those that depend for protection on a passive surface film, which can be eroded. Resulting damage can also be enhanced by particles or gas bubbles in a suspended state.

Intergranular corrosion
Intergranular corrosion occurs between the crystals (or grains) that formed when the metal solidified. The composition of the areas between the crystals differs from that of the crystals themselves, and these boundary areas can become subject to intergranular corrosion. Weld areas of austenitic stainless steels are often affected by this form of corrosion, and the heat-treatable aluminum alloys are also susceptible.

Corrosion resistance guide

The following table has been compiled as a guide for selecting appropriate cable trays for various industrial environments. The information can only be used as a guide because corrosion processes are dictated by the unique circumstances of any particular assembly.

Corrosion is significantly affected by trace impurities which, at times, can become concentrated through wet/dry cycles in locations that are prone to condensation and evaporation. It is not uncommon to find aggressive mists created from contaminant species, notably from sulfur or halogen sources.

Temperature greatly influences corrosion, sometimes increasing the rate of metal loss, (a rule-of-thumb guide is that a 30 °C change in temperature results in a 10X change in corrosion rate). Sometimes corrosion attack slows down at higher temperatures because oxygen levels in aqueous solutions are lowered as temperatures increase. If an environment completely dries out then there can be no corrosion.

Stress-associated corrosion might occur when assemblies are poorly installed and/or fabricated, e.g., on-site welding or mechanical fastening. Premature failure can result from: corrosion fatigue, which can occur in any environment; stress corrosion cracking, which occurs in the presence of a specific chemical when the metal is under a tensile stress, which may be residual or applied, (e.g., from poor fabrication or welding); fretting, where two adjacent surfaces (under load) are subjected to an oscillatory motion across the mating surfaces.

Design should minimize the risk of stress concentrations within a structure. Examples include sharp profiles, abrupt section changes and threaded screws. These measures are particularly important for metals that are prone to stress corrosion cracking in specific media. Design plays a significant role in exacerbating corrosion. Non-draining locations create liquid traps; local metal-to-metal (or metal-to-non-metal) contact points (e.g., mechanical assembly bolts with washers or spacers), permit crevice corrosion and/or galvanic corrosion to occur.

Areas that are poorly maintained, (e.g., surfaces are not regularly or properly washed and stubborn deposits remain on the metal surface), are particularly prone to localized corrosion damage due to different levels of oxygen under and adjacent to the location in question (differential aeration). Resulting damage from these situations is in the form of small holes (pits). In each of the examples just quoted, there is a restricted supply of oxygen. Thus, metals (e.g., aluminum, stainless steels, zinc) that rely on oxygen to form protective corrosion films (oxides, hydroxides, carbonates, etc.) may be prone to localized pitting and/or crevice corrosion.

A further example of localized corrosion occurs when dissimilar metals contact each other in the presence of a corrodent, i.e., galvanic corrosion. Each metal will corrode, but the one that is most active (anode) can be more corroded, especially when there is a large surrounding area of the less active (cathodic) metal. It is wise to avoid small anodic areas. Some examples include: steel bolts (small area of anodic metal) in stainless steel plate (large area of cathodic metal); steel bolts in copper plate – the steel corrodes. There can be environmental influences, for example, a fluid that contains active metallic species, like copper ion, contacts with aluminum (copper picked up from aqueous solutions conveyed in copper pipe) – the aluminum corrodes. A further dramatic example is provided when trace quantities of mercury contact aluminum – the aluminum corrodes very rapidly. These are examples of deposit corrosion.

Technical information

Corrosion resistance guide

This guide provides an indication of the suitability of a potential candidate material for a specific chemical environment. These tables should be regarded only as a GUIDE to anticipated performance because of possible contributions from temperature, pollutant (contaminant) species, etc.

Corrosion resistance guide

Chemical species	Aluminum	HDG/Steel	316SS
Acetaldehyde	++	+	+ +
Acetic acid – aerated	(+)^{T,C}	X	(++)^{T}
Acetone	++	++	++
Acetylene	++	nd	++
Allyl alcohol	+	nd	++
Aluminum chloride – dry	+	nd	(+)^{T,P}
Aluminum chloride – wet	X	X	(-)^{P}
Aluminum sulfate – satd.	X	nd	+
Ammonia – anhydrous	++	++	++
Ammonia – gas	-	+	(+)^{T}
Ammonium acetate	+	nd	+
Ammonium bicarbonate	-	nd	(+)^{T}
Ammonium carbonate – satd.	+	X	+
Ammonium chloride – 28%	X	X	(+)^{P,S}
Ammonium chloride – 50%	X	X	X
Ammonium hydroxide	+	+	(++)^{C}
Ammonium chloride – 28%	X	X	(+)^{P,S}
Ammonium chloride – 50%	X	X	X
Ammonium hydroxide	+	+	(++)^{C}
Ammonium nitrate	+	X	(++)^{S}
Ammonium phosphate – 40%	X	nd	+
Ammonium sulfate – to 30%	X	-	+
Amyl acetate	++	++	++
Asphalt	++	+	+
Beer	++	X	++
Benzene (benzol)	++	+	(+)^{P}
Benzoic acid	+	nd	+
Benzol – see benzene			
Boric acid (boracic acid)	++	nd	(++)^{T,P}
Bromine – wet	X	X	X
Butadiene (butylene)	+	+	+
Butyl alcohol (butanol)	++	++	++
Butyric acid	+	X	+
Cadmium sulfate	+	nd	++
Calcium carbonate	-	nd	+
Calcium chloride – satd.	+	X	(+)^{S}
Calcium hydroxide – satd.	X	nd	+
Calcium hypochlorite – satd.	X	X	(-)^{P}
Carbon dioxide – wet	++	+	+
Carbon disulfide (bisulfide)	++	+	++
Carbon tetrachloride	X	+	(++)^{P,S}
Carbolic acid – see phenol			
Carbonic acid – see carbon dioxide			

Chemical species	Aluminum	HDG/Steel	316SS
Caustic potash – see potassium hydroxide			
Caustic soda – see sodium hydroxide			
Chlorine gas – wet	X	++	(-)^{P,S}
Chloroform	(+)^{dry}	+	(+)^{T,S}
Chromic acid	+	nd	(+)^{P}
Citric acid – dilute	(+)^{T,C}	X	(++)^{P}
Copper chloride	X	X	(-)^{P}
Copper nitrate	X	nd	++
Copper sulfate	X	-	+
Cresol	+	+	+
Crude oil	++	++	++
Diethylamine	+	++	++
Dimethyl ketone – see acetone			
Ethyl acetate	(++)^{dry}	++	+
Ethyl alcohol (ethanol)	++	++	++
Ethylene dichloride	(-)^{dry}	++	(+)^{P,S}
Ethylene glycol (glycol)	++	++	++
Ferric chloride	X	X	X
Ferric nitrate – 10%	X	nd	+
Ferrous sulfate	+	nd	(+)^{P}
Formaldehyde (methanal)	(+)^{P}	++	(++)^{T,C}
Fluorine gas – moist	X	X	X
Formalin – see formaldehyde			
Formic acid (methanoic acid) – 10%	(+)^{T}	X	(+)^{P,C}
Furfural (furfuraldehyde)	+	nd	+
Furol – see furfural			
Gelatin	++	+	++
Glycerine (glycerol)	++	++	++
Hexamine – 80%	++	nd	++
Hydrobromic acid	X	X	X
Hydrochloric acid (muriatic acid)	X	X	X
Hydrocyanic acid – dilute	+	nd	+
Hydrocyanic acid – conc.	X	nd	+
Hydrofluoric acid	X	X	X
Hydrogen chloride gas – dry	X	X	(++)^{S}
Hydrogen chloride gas – wet	X	X	+
Hydrogen fluoride	(-)^{T}	nd	+
Hydrogen peroxide – to 40%	++	nd	+
Hydrogen sulfide – wet	(+)^{P}	nd	(+)^{P,S}
Hypo – see sodium thiosulfate			
Hypochlorous acid	X	X	X
Iodine solution – satd.	X	X	X
Lactic acid	(+)^{T}	nd	(+)^{P,I}

Technical information

Corrosion resistance guide

Corrosion resistance guide

Chemical species	Aluminum	HDG/Steel	316SS
Latex	++	-	++
Lithium chloride – to 30%	X	nd	++
Linseed oil	+	nd	++
Magnesium chloride – 50%	X	X	(+)[P,S]
Magnesium hydroxide	+	nd	++
Magnesium sulfate	+	X	+
Maleic acid (maleinic acid) – 20%	+	nd	+
Methyl alcohol (methanol)	++	++	++
Methyl ethyl ketone	+	++	+
Milk	++	X	++
Molasses	+	nd	++
Naptha	+	+	+
Natural fats	++	++	++
Nickel chloride	X	nd	(+)[P,S]
Nickel sulfate	X	nd	+
Nitric acid	X	X	(++)[I]
Oleic acid	(++)[T]	nd	++
Oxalic acid – dilute	-	nd	+
Oxalic acid – saturated	(+)[T]	X	X
Paraformaldehyde – to 30%	+	nd	++
Perchloroethylene	+	X	(++)[P]
Phenol (carbolic acid)	+	+	++
Phosphoric acid – dilute	X	X	++
Phosphoric acid – 50%	X	X	(++)[I]
Picric acid	++	nd	+
Potassium bicarbonate – 30%	X	nd	++
Potassium carbonate	X	nd	++
Potassium chloride – to 25%	X	X	(++)[P]
Potassium dichromate – 30%	(++)[T]	X	++
Potassium hydroxide	X	nd	(+)[S]
Potassium nitrate	++	++	+
Potassium sulfate	++	++	++
Propionic acid (propanoic acid)	(+)[T]	X	(+)[T]
Propyl alcohol (propane)	++	++	++
Prussic acid – see hydrocyanic acid			
Pyridine	+	nd	++
Soaps	+	-	+
Sodium bicarbonate – 20%	+	nd	++
Sodium bisulfate	X	X	(+)[T]
Sodium bisulfite	X	X	+
Sodium chloride – to 30%	X	X	(+)[P,S]
Sodium cyanide	X	nd	(+)[T]
Sodium hydroxide – 10-30%	X	X	(+)[S]
Sodium hydroxide – 50%	X	X	(++)[S]
Sodium hydroxide – conc	X	X	++
Sodium hypochlorite – conc	X	+	(-)[P,S]
Sodium nitrate	++	X	++
Sodium peroxide – 10%	+	nd	+
Sodium silicate	++	nd	++
Sodium sulfate	(++)[30%]	X	++
Sodium sulfide – to 50%	X	nd	(+)[T]
Sodium thiosulfate	+	nd	+
Steam	(+)[P]	++	++
Stearic acid	+	nd	++
Sorbital (hexahydric alcohol)	++	+	++
Sulfur dioxide – dry	+	+	++
Sulfur dioxide – wet	X	X	(+)[T]
Sulfuric acid – to 80%	X	X	X
Sulfuric acid – 80-90%	X	X	(-)[I]
Sulfuric acid – 98%	X	X	(+)[I]
Tannic acid (tannin)	X	X	+
Tartaric acid – to 50%	(+)[T]	nd	++
Toluene (Toluol; methyl benzene)	++	++	++
Trichloroethylene	(++)[T]	+	(+)[P]
Turpentine	+	++	++
Water – acid, mine	X	-	(++)[P]
Water – potable	+	+	++
Water – sea	+	+	++
Zinc chloride – dilute	++	nd	(++)[P,S]

Symbols:

++ First choice; very low corrosion rate, typically <5 mpy, or <0.005 inch/year, (1 mil = 1/1000 inch)

+ Good choice; low corrosion rate, typically <20 mpy, or <0.02 ipy

- Can use; corrosion rate up to 50 mpy (0.05 ipy); some limitations may apply

X Not recommended

(-) Brackets indicate probable limitations, e.g., at higher temperatures, [symbol "T"]; at higher concentrations, [symbol "C"]; due to pitting, [symbol "P"]; due to local grain boundary attack in the metal – intergranular corrosion, [symbol "I"]; or, due to stress corrosion cracking, [symbol "S"]

nd No available data

Selection process

2. Select the tray class/load capacity (loading)

The standard classes of cable trays, as related to their maximum design loads and to the associated design support spacing based on a simple beam span requirement, shall be designated in accordance with Table 1. Please note the load ratings in Table 1 are those most commonly used. Other load ratings are acceptable. (according to NEMA VE-1/CSA C22.2 No 126.1-02).

Costs vary between different load classes. Since labor and coupling costs are similar for a given length of tray, the heavier classes are less cost-effective on a load length basis. The designer should therefore specify the lightest class of tray compatible with the weight requirements of the cable tray.

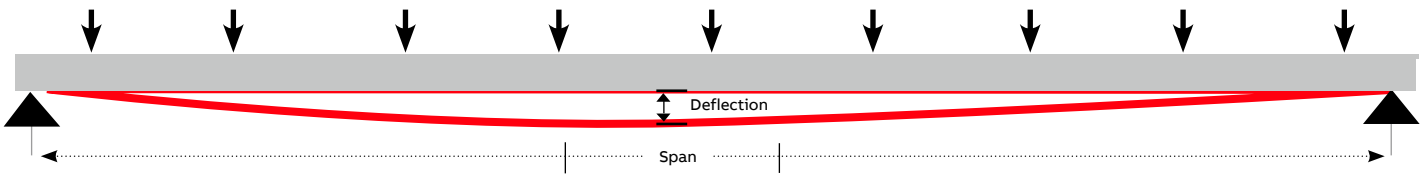
Table 1 – Span/load class designation – USA

Load kg/m (lb/ft.)		Span. m (ft.)				
kg/m	(lb/ft.)	1.5 (5)	2.4 (8)	3.0 (10)	3.7 (12)	6.0 (20)
37	(25)	5AA	8AA	10AA	12AA	20AA
74	(50)	5A	8A	10A	12A	20A
112	(75)	–	8B	–	12B	20B
149	(100)	–	8C	–	12C	20C

Note: These ratings are also used in Mexico

Table 2 – Span/load class designation – Canada

Load kg/m (lb/ft.)		Span. m (ft.)						
kg/m	(lb/ft.)	1.5 (5)	2.0 (6.5)	2.5 (8.2)	3.0 (10)	4.0 (13)	5.0 (16.4)	6.0 (20)
37	(25)	–	–	–	A	–	–	–
45	(30)	–	–	A	–	–	–	–
62	(42)	–	A	–	–	–	–	–
67	(45)	–	–	–	–	–	–	D
82	(55)	–	–	–	–	–	D	–
97	(65)	–	–	–	C	–	–	–
99	(67)	A	–	–	–	–	–	–
112	(75)	–	–	–	–	–	–	E
113	(76)	–	–	–	–	D	–	–
119	(80)	–	–	C	–	–	–	–
137	(92)	–	–	–	–	–	E	–
164	(110)	–	C	–	–	–	–	–
179	(120)	–	–	–	D	–	–	–
189	(127)	–	–	–	–	E	–	–
259	(174)	C	–	–	–	–	–	–
299	(200)	–	–	–	E	–	–	–



Cable loads
The cable load is the total weight, expressed in (kg/m), of all the cables that will be placed in the cable tray.

Snow loads
The additional design load from snowfall should be determined using the building codes that apply for each installation.

Ice loads
The additional load design due to ice is determined by the following formula:

$$Wi = W \times Ti \times Di/144$$

Where:
Wi = ice load (lb/ft.)
W = width of the tray (inches)
Ti = maximum ice thickness (inches)
Di = 57 lb/ft.^{3} ice density

$$Wi = W \times Ti \times Di/10^6$$

Where:
Wi = ice load (kg/m)
W = width of the tray (mm)
Ti = maximum ice thickness (mm)
Di = 913 kg /m^3 ice density

Ice thickness will vary depending on installation location. A value of ½ inch can be used as a conservative standard for Canada.

Wind loads
The additional loading to be considered is the effect of the impact pressure normal to the side rail. This loading is determined by the following formula:

$$Wp = 0.00256 \times V^2 \times H/12$$

Where:
Wp = loading due to the wind (lb/linear foot)
V = wind velocity (mph)
H = height of the side rail (inches)

It is important to note that cable tray is not designed to support personnel. The user should display appropriate warnings to prevent the use of cable tray as walkways.

Concentrated loads

A concentrated static load is not included in Table 1. Some user applications may require that a given concentrated static load be imposed over and above the working load.

Such a concentrated static load represents a static weight applied on the centerline of the tray at midspan. When so specified, the concentrated static load may be converted to an equivalent uniform load (We) in kilograms/meter (pounds), using the following formula, and added to the static weight of cable in the tray:

$$We = \frac{2 \times (\text{concentrated static load, kg (lb)})}{\text{Span length, m (ft.)}}$$

Seismic loads

It is now known that cable tray systems can withstand stronger earthquakes than previously thought. The tray itself and the support material are highly ductile, and the cables moving within the tray tend to dissipate energy. However, if you have specific seismic specifications for selected cable tray, please consult ABB to ensure your specifications are met.

Loading for grades B, C and D

General loading requirements and maps (IEEE: Section 25 loading for grades B, C and D)

General

1. It is necessary to estimate the loadings that may be expected to occur on a line because of wind and ice during all seasons of the year. These weather loadings shall be the values of loading resulting from the application of Rules 250B or 250C. Where both rules apply, the required loading shall be the one that, when combined with the appropriate overload capacity factors, has the greater effect on strength requirements.
2. Where construction or maintenance loads exceed those imposed by Rule 250A1, which may occur more frequently in light loading areas, the assumed loadings shall be increased accordingly.
3. It is recognized that loadings actually experienced in certain areas in each of the loading districts may be greater, or in some cases, may be less than those specified in these rules. In the absence of a detailed loading analysis, no reduction in the loadings specified therein shall be made without the approval of the administrative authority.

Combined ice and wind loading

Three general angles of loading due to weather conditions are recognized and are designated as heavy, medium and light loading. Figure 250-1 shows the districts in which these loadings are normally applicable.

Figure 250-1 shows the radial thickness of ice and the wind pressures to be used in calculating loading. Ice is assumed to weigh 57 lb/ft.^{3} (913 kg/m^3).

Extreme wind loading

If any portion of a structure or its supported facilities exceeds 60 ft. (18 m) above ground or water level, the applicable horizontal wind speed of Figure 250-2, as determined by the linear interpolation, shall be used to calculate horizontal wind pressures. These pressures shall be applied to the entire structure and supported facilities without ice loading.

The following formulas shall be used to calculate wind pressures on cylindrical surfaces:

pressure in lb/ft.^{3} = 0.00256 (v m/h)^2

pressure in pascals = 0.613 (v m/h)^2

Where:
m = meters
s = seconds

Figure 250-2 lists the conversions of velocities to pressures for typical wind speeds as calculated by the formulas listed above. If no portion of the structure or its supported facilities exceeds 60 ft. (18 m) above ground or water level, the provisions of this rule are not required.

For Canadian customers, please refer to Annex A (page A232) for figure 250-1CDN and figure 250-2CDN.

For American customers, please refer to Annex B (page A232) for figure 250-1USA and figure 250-2USA.

Structural design

An installed cable tray system functions as a beam under a uniformly distributed load. The four basic beam configurations found in cable installations are simple, continuous, cantilever and fixed. Each is attached to the cable tray support in a different way.

Continuous beam
Cable tray sections forming spans constitute a continuous beam configuration, the most common found in cable tray installations. This configuration exhibits characteristics of the simple beam and the fixed beam. For example, with loads applied to all spans at the same time, the ends spans function like simple beams, while the counterbalancing loads on either side of a support function like a fixed beam. As the number of spans increases, the continuous beam behaves increasingly like a fixed beam, and the maximum deflection continues to decrease. As this occurs, the system's load carrying capability increases.

Simple beam
A straight section of cable tray supported at both ends but not fastened functions as a simple beam. Under a load, the tray will exhibit deflection. The load carrying capacity of a cable tray unit should be based on simple beam loading, since this type of loading occurs at run ends, offsets, etc., in any tray system. The NEMA/CSA Load Test is a simple beam, uniformly distributed load test, used primarily because it is easy to test and represents the worst case beam condition compared to continuous or fixed configurations. The only criterion for NEMA/CSA acceptance is the ability to support 150% of the rated load.

Fixed beam
Like the cantilever beam, a fixed beam applies more to the cable tray supports than the tray itself, because both ends of a fixed beam are firmly attached to the supports. The rigid attachment prevents movement and increases load bearing ability.

Cantilever beam
A cantilever beam has more to do with the cable tray supports than the tray. Attaching one end of a beam to a support while the other end remains unsupported, as when wall mounting a bracket, creates a cantilever beam configuration. Obviously, with one end unsupported, the load rating of a cantilever beam is significantly less than that of a simple beam.

Design loadings
Basic cable trays are designed on the basis of maximum allowable stress for a certain section and material. The allowable cable load varies with the span, type and width of the tray.

Splicing
Since the need for a continuous system requires that side rails be spliced, splice plates must be both strong and easy to install. The ABB aluminum snap-in splice plate allows hands-free installation of hardware for easier assembly. If practical, splices in a continuous span cable tray system should be installed at points of minimum stress. Unspliced straight sections should be used on all simple spans and on end spans of continuous span runs. Straight section lengths should be equal to or greater than the span length to ensure not more than one splice between supports.

Examples of splicing configurations are shown on page A25.

Basic design stresses
Allowable working stresses are the basis for all structural design. Since they must be of such magnitude as to assure the safety of the structure against failure, their selection is a matter of prime importance. In practice, a basic design stress is determined by dividing the strength of the material by a factor of safety. The determining factors in establishing a set of basic design stresses for a structure are therefore the mechanical properties of the materials and suitable factors of safety. Yield strength and ultimate strength are the mechanical properties most commonly considered to govern design. Values for these properties are readily obtainable. In determining the factor of safety, the designer must usually be guided by current practice – the "standard specifications" adopted by various technical societies and associations – and his or her own judgment and experience.

Structural design (continued)

Factors of safety
Since a low value for the factor of safety results in economy of material, the designer seeks to establish a value as low as is practical, based on sound engineering judgment and experience. In making the determination, consideration of the following factors are highly important:

- **The accuracy with which the loads to represent service conditions are selected and assumed.** If there is much doubt concerning these loads, the basic design stress will have to be more conservative than under conditions where the loads are known with considerable accuracy.
- **The accuracy with which the stresses in the members of a structure are calculated.** Many approximations are used in structural design to estimate stress distribution. The choice of a factor of safety should be consistent with how accurate the analysis is. The more precise the method, the greater the allowable unit stress may be.
- **The significance of the structure being designed.** The designer must keep in mind the relative importance of the structure and appraise the possibility of its failure causing significant property damage or loss of life. In this respect, the significance of the design will govern the choice of a factor of safety to a considerable extent.

The factors of safety used in designing most common types of structures are an outgrowth of the experience gained from many applications and tests – even failures. The trend in recent years has been to reduce the factors of safety in line with improved quality of material and increasing knowledge of stress distribution. Further reductions may be made in the future as greater accuracy in determinations becomes possible and practicable.

Application of design stresses to cable tray systems
A cable tray manufacturer must design standard products to accommodate the great variations encountered in applications. The factors affecting the selection of a suitable basic design stress necessarily result in more conservative stresses than might otherwise be required.

An engineer who is in a position to determine specific stress requirements with a far greater degree of accuracy may consider that the manufacturer's basic design stresses are too conservative for a particular project. Using individual experience and judgment, he or she would establish a new set of basic design stresses, selecting those safety factors that would result in a cable tray system best suited to meet the projected service conditions. With these stresses, the engineer can easily calculate an increase or decrease in the manufacturer's loading data, since the load is always in direct proportion to the stress.

The factors of safety used in determining maximum allowable stresses are as follows:

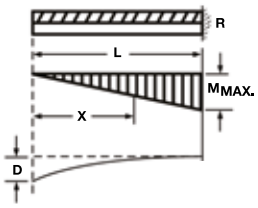
Aluminum alloys
- For tension: the lower of ⅓ the minimum ultimate strength or ½ the minimum yield strength in tension.
- For compression: the lower of ⅓ the minimum ultimate strength or ⅖ the minimum yield strength in compression.
- For shear: the lower of ⅓ the minimum ultimate strength or ½ the minimum yield strength in shear.

For hot rolled steels
- For tension: the lower of ½ the minimum ultimate strength or the minimum yield point in tension times 0.61.
- For compression: the lower of ½ the minimum ultimate strength or the minimum yield point in compression times 0.61.
- For shear: maximum stress not to exceed a value of ⅔ the basic design stress for tension.

Design efficiency
A tray designed to perform its required function with the minimum weight (which facilitates installation) requires the material to be used in the most effective manner. The design requirements of side rails are different from those of rungs or ventilated bottom; fabricated tray allows the designer to use different shapes and thicknesses of metal to the best advantage. The strength of the side rail and rungs is increased by the proper use of metal in the high strength heat-treated aluminum or continuously rolled cold-worked steel sections.

Loading
Cantilever beams

Uniform load



Reaction: R = wL = W

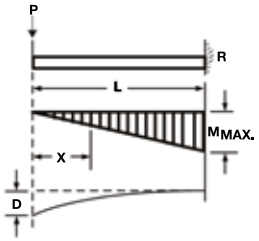
Moment at any point: **M** = $\frac{wX^2}{2} = \frac{WX^2}{2L}$

Maximum moment **Mmax** = $\frac{wL^2}{2} = \frac{WL}{2}$

Maximum deflection: **D** = $\frac{wL^4}{8EI} = \frac{WL^3}{8EI}$

Maximum shear: **V** = wL

Concentrated load at free end



Reaction: R = P

Moment at any point: **M** = Px

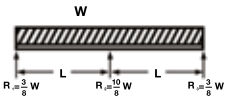
Maximum moment **Mmax** = PL

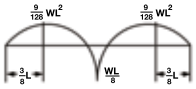
Maximum deflection: **D** = $\frac{PL^3}{3EI}$

Maximum shear: **V** = P

Loading
Continuous beams

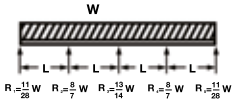
Two span

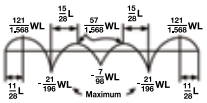




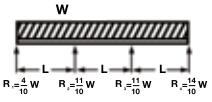
W = wL

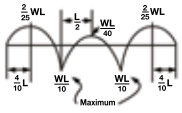
Four span



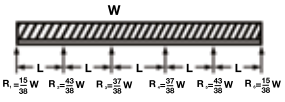


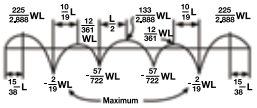
Three span





Five Span

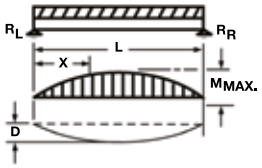




Loading

Simple beams

Uniform load
w per unit of length, total load w



Reaction: $R_L = R_R = \frac{WL}{2} = \frac{W}{2}$

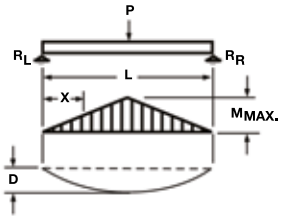
Moment at any point: $\mathbf{M} = \frac{wX(L-X)}{2} = \frac{WX(L-X)}{2L}$

Maximum moment at center: $\mathbf{Mmax} = \frac{wL^2}{8} = \frac{WL}{8}$

Maximum deflection: $\mathbf{D} = \frac{5wL^4}{384EI} = \frac{5WL^3}{384EI}$

Maximum shear: $\mathbf{V} = \frac{WL}{2}$

Concentrated load at center



Reaction: $R_L = R_R = \frac{P}{2}$

Moment at any point: $\mathbf{X} <= \frac{L}{2}, M = \frac{PX}{2}$

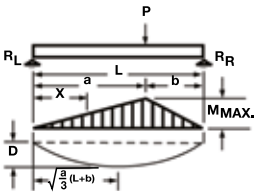
$\mathbf{X} > = \frac{L}{2}, M = \frac{P(L-X)}{2}$

Maximum moment at center: $\mathbf{Mmax} = \frac{PL}{4}$

Maximum deflection: $\mathbf{D} = \frac{PL^3}{48EI}$

Maximum shear: $\mathbf{V} = \frac{P}{2}$

Concentrated load at any point



Reaction: $R_L = \frac{Pb}{L}, R_R = \frac{Pa}{L}$

Moment at any point: $\mathbf{X} <= a, M = R_L X = \frac{PbX}{L}$

$\mathbf{X} >= a, M = R_R (L-X) = \frac{Pa\,(L-X)}{L}$

Maximum moment: At $\mathbf{X} = a$, $Mmax = \frac{Pab}{L}$

Maximum deflection: $\mathbf{D} = \frac{Pab(L+b)3a(L+b)}{27EIL}$

Maximum shear: $\mathbf{V} = \frac{Pa}{L}$, when a > b

Selection process
3. Select the tray type

Cable tray is available with three styles of bottom:

Ladder cable tray is a prefabricated structure consisting of two longitudinal side rails connected by individual transverse members.

Ventilated cable tray is a prefabricated structure consisting of a ventilated bottom within integral or separate longitudinal side rails, with no openings exceeding 4 in. in a longitudinal direction.

Solid bottom cable tray is a prefabricated structure without openings in the bottom.

Ladder tray is most often used because of its cost-effectiveness. The designer has a choice of four nominal rung spacings: 6, 9, 12 and 18 inches. The greatest rung spacing compatible with an adequate cable bearing surface area should be selected. Heavy power cables often require greater cable bearing area due to the possibility of creep in the jacket material of the cable. If this is a concern, consult the cable manufacturer.

This condition may require the use of ventilated tray, which also offers additional mechanical protection for the cables. Local building codes may require totally enclosed cable tray systems under certain conditions. The designer should verify these before specifying the type of tray to be used.

Selection process
4. Select the tray size

The width or height of a cable tray is a function of the number, size, spacing and weight of the cables in the tray. Available nominal widths are 6, 9, 12, 18, 24, 30, 36 and 42 inches.

When specifying width, it is important to remember that the load rating does not change as the width increases. Even with six times the volume, a 36 in. wide tray cannot hold any more weight than a 6 in. wide tray. If the load rating of the tray permits, cable can be piled deeper in the tray. Most tray classes are available in a nominal 3⅝, 4, 5, 6 and 7 inches (8 inch height also available as a special – see appendix).

Cable ties or other spacing devices may be used to maintain the required air space between cables.

Selection process
5. Select the fittings

Fittings are used to change the size or direction of the cable tray. The most important decision to be made in fitting design concerns radius. The radius of the bend, whether horizontal or vertical, can be 12, 24, 36 or 48 in., or even greater on a custom basis.

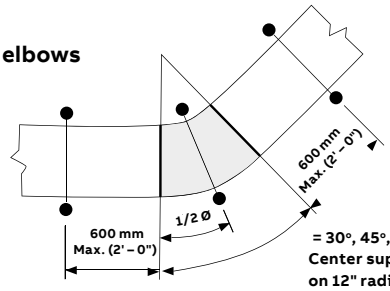
The selection requires a compromise with the considerations being available space, minimum bending radius of cables, ease of cable pulling and cost.

The typical radius is 24 in. Fittings are also available for 30°, 45°, 60° and 90° angles.

When a standard angle will not work, field fittings or adjustable elbows can be used. It may be necessary to add supports to the tray at these points. Refer to NEMA VE2 installation guidelines for suggested support locations. Note that fittings are not subject to NEMA/CSA load ratings.

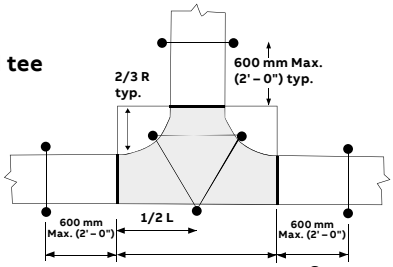
Support locations for fittings

Horizontal elbows



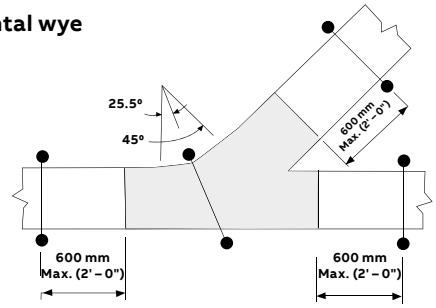
= 30°, 45°, 60°, 90°
Center support not required on 12" radius 30° and 45° fittings

Horizontal tee



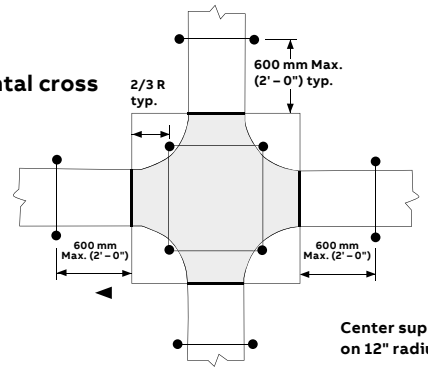
Center support not required on 12" radius fittings

Horizontal wye



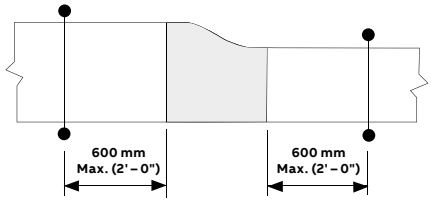
Center support not required on 12" radius fittings

Horizontal cross

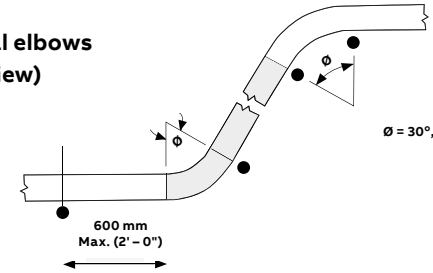


Center support not required on 12" radius fittings

Reducer



Vertical elbows (side view)



Ø = 30°, 45°, 60°, 90°

Selection process
6. Consider deflection

Deflection of the cable tray affects the appearance of an installation, but it is not a structural issue. In the case of nonmetallic cable tray, deflection may be affected by elevated temperatures.

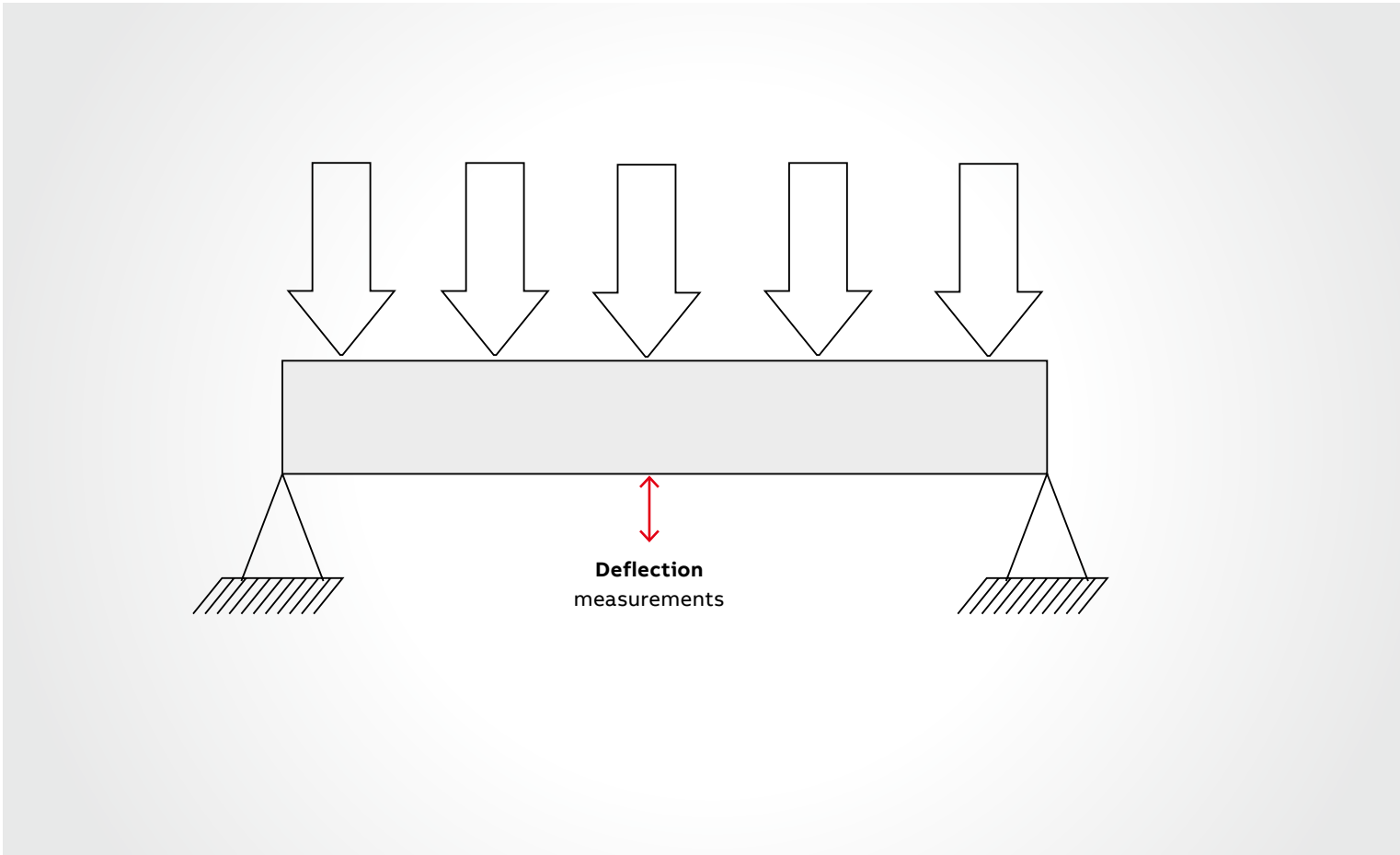
— 01 Test load = 1.5 x rated load x length

The NEMA/CSA load test is a simple beam, uniformly distributed load test (see Figure 1). This type of test was initially selected because:

- It was easiest to test.
- It represents the worst case beam condition compared to continuous or fixed configurations. When consulting the manufacturer's catalogue for deflection information, the designer must verify whether the data shown represents simple or continuous beam deflection. If continuous beam deflection is shown, the calculation factor should be given.

NEMA/CSA has one criterion for acceptance under their load test: the ability to support 150% of the rated load.

—
01



01 Simple beam Uniformly distributed load

02 Continuous beam – two spans Uniformly distributed load

6. Consider deflection (continued)

Simple vs. continuous beam deflection
Theoretical maximum deflection for a simple beam, uniformly distributed load may be calculated as:

$$0.0130 \quad \frac{wL^4}{E\,I} \times 1728 = 22.5 \frac{wL^4}{E\,I}$$

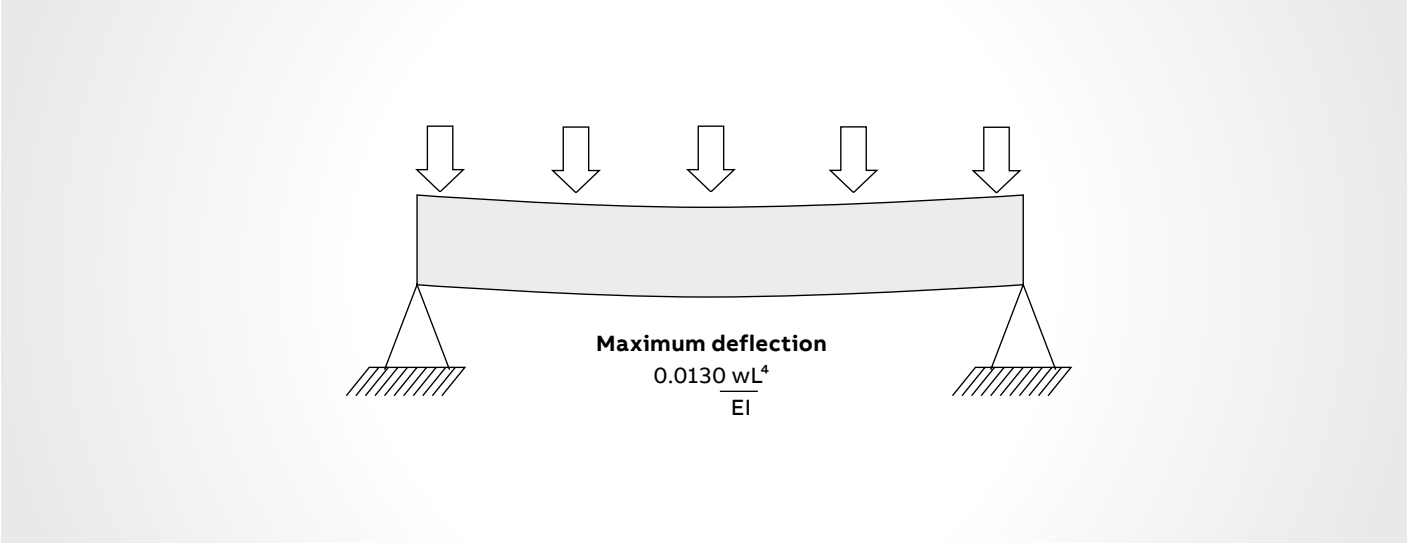
Where: **w** = Load
L = Length
E = Modulus of elasticity
I = Moment of inertia

The maximum deflection calculation for a continuous beam of two spans with a uniformly distributed load is:

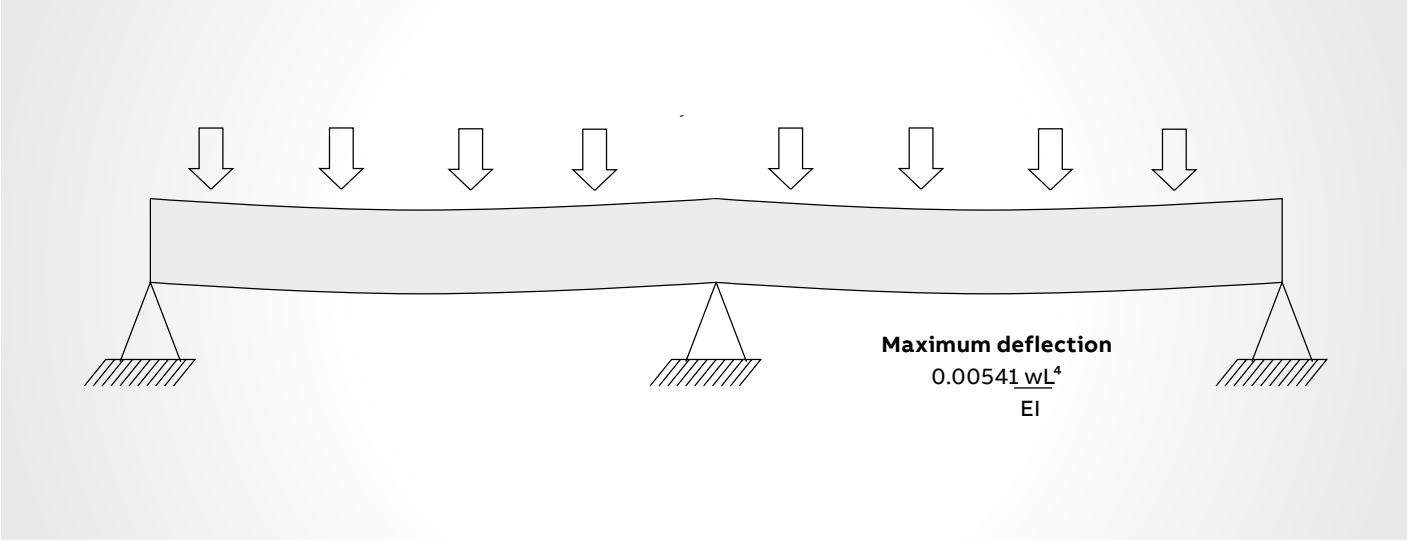
$$0.00541 \quad \frac{wL^4}{EI}$$

A continuous beam of two spans therefore has a theoretical maximum deflection of only 42% of its simple beam deflection. As the number of spans increases, the beam behaves increasingly like a fixed beam, and the maximum deflection continues to decrease. As this occurs, the system's load carrying capability increases.

01



02



Location of couplings

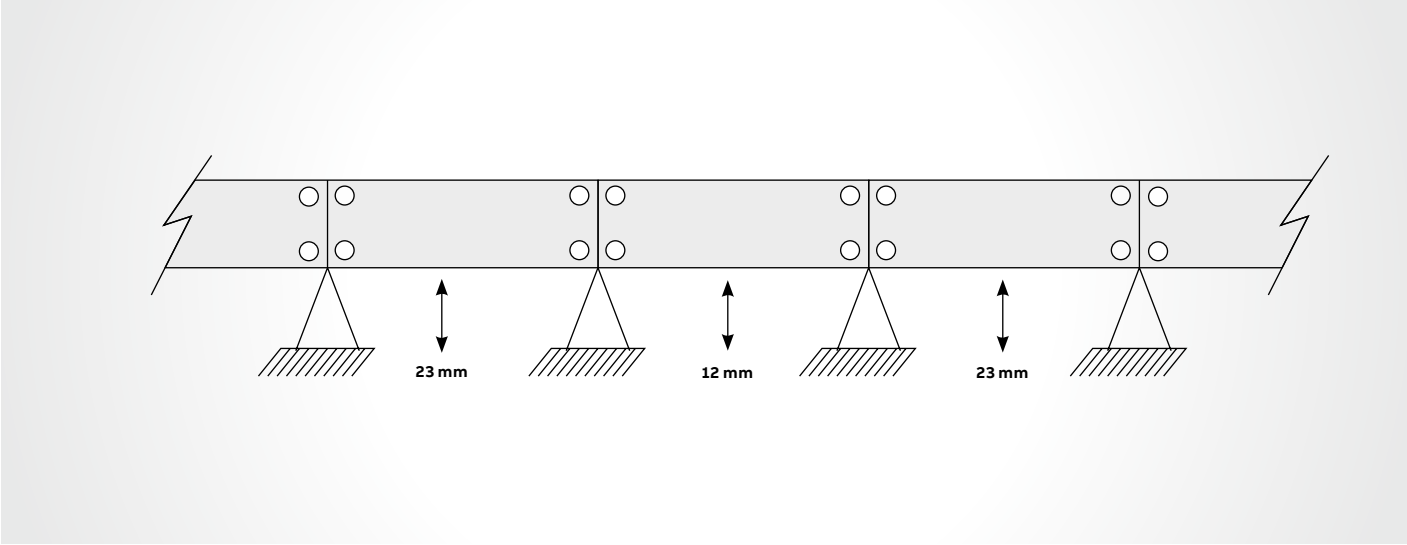
Since different bending moments are created in each span, there is no simple factor to approximate deflection as the number of spans increases. It is possible to calculate these deflections at any given point by using second integration of the basic differential equation for beams. Testing shows that the center span of a three-tray continuous beam can deflect less than 10 % of its simple beam deflection.

The support span should not be greater than the straight section length, to ensure no more than one splice is located between supports.

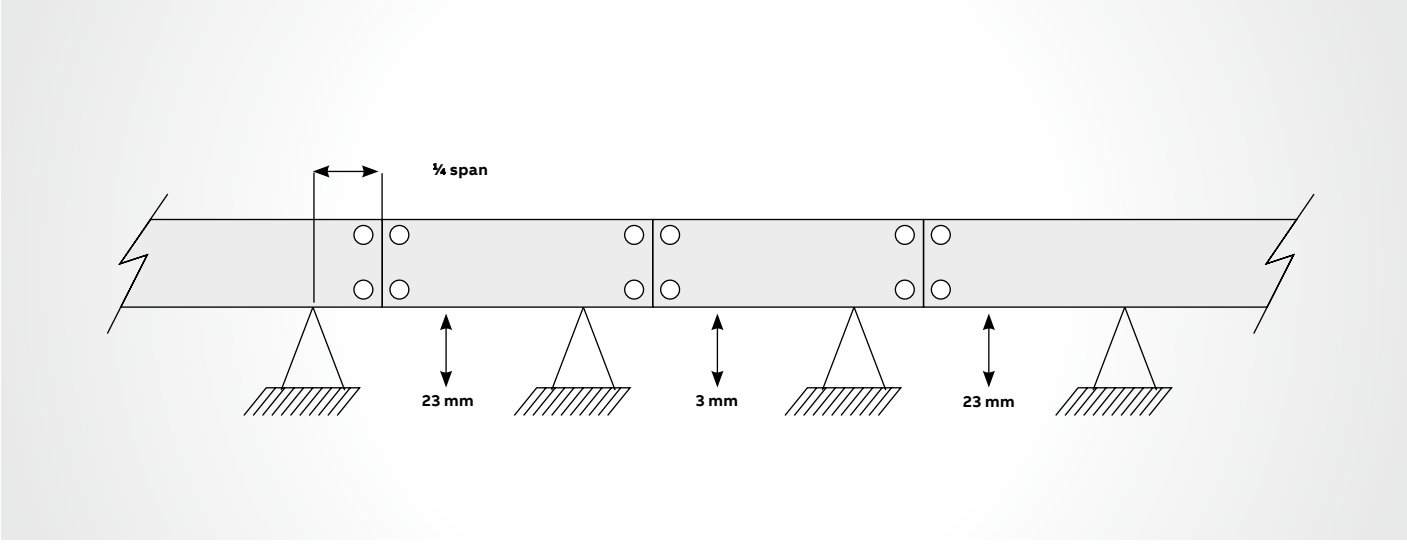
Location of couplers
(See Figure 4) The location of the coupler dramatically affects the deflection of a cable tray system under equal loading conditions. Testing indicates that the maximum deflection of the center span of a three-span tray run can decrease four times if the couplers are moved to the one-quarter point from the above supports. This can be a major concern for designers considering modular systems for tray and pipe racks.

—
03 Couplers at supports – not recommended
—
04 Couplers at ¼ span from supports – ideal layout

—
03



—
04



Selection process

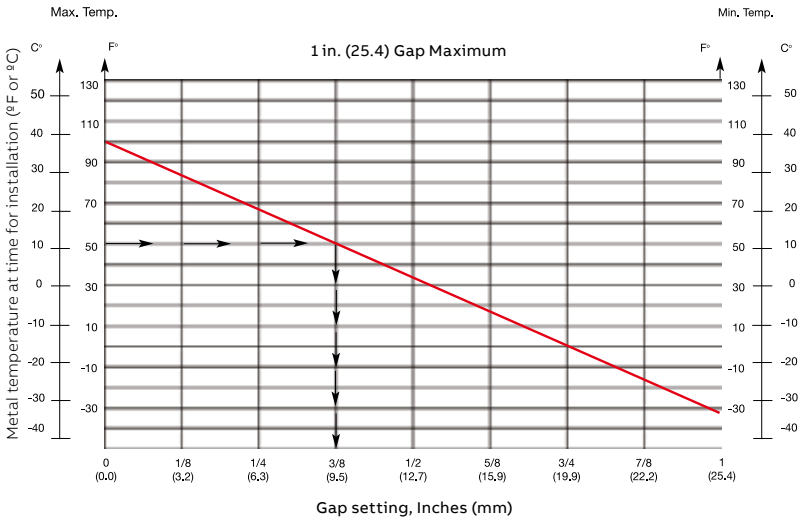
7. Consider thermal expansion and contraction

Table 1 – Maximum distance between expansion joints (for 1 in. movement)

Temperature Differential		316 Stainless Steel		Steel		Aluminum	
°C	°F	m	Feet	m	Feet	m	Feet
14	25	115	379	156	512	79	260
28	50	58	189	78	256	40	130
42	75	38	126	52	171	27	87
56	100	29	95	39	128	20	65
70	125	23	76	31	102	16	52
83	150	19	63	26	85	13	43
97	175	16	54	22	73	11	37

Note: Every pair of expansion splice plates requires two bonding jumpers for grounding continuity.

Figure 2 – Gap setting of expansion splice plate



A cable tray system may be affected by thermal expansion and contraction, which must be taken into account during installation.

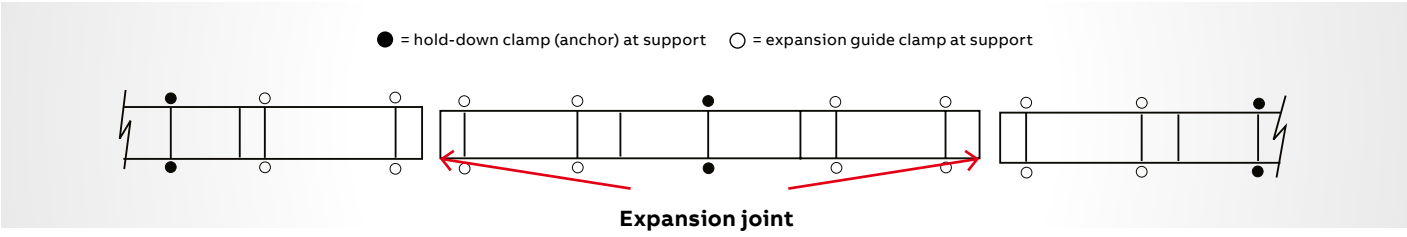
To determine the number of expansion splice plates you need, decide the length of the straight cable tray runs and the total difference between the minimum winter and maximum summer temperatures. To function properly, expansion splice plates require accurate gap settings between trays. To find the gap, see Figure 2.

Plot your gap setting

- Locate the lowest metal temperature on low temperature line.
- Locate the highest metal temperature on high temperature line.
- Connect these two points.
- Locate installation temperature and plot to high/low line.
- Drop plot to gap setting.

The support nearest the midpoint between expansion splice plates should be anchored, allowing the tray longitudinal movement in both directions. All other support location should be secured by expansion guides. (See Figure 3.)

Figure 3 – Typical cable tray installation



Selection process
8. Electrical grounding capacity

The National Electrical Code, Article 392-7 allows cable tray to be used as an equipment grounding conductor. All ABB standard cable trays are classified by Underwriter's Laboratories per US NEC Table 392-7 based on their cross-sectional area.

The corresponding cross-sectional area for each side rail design (2 side rails) is listed on the label. This cable tray label is attached to each straight section that is UL classified. Fittings are not subject to CSA or UL.

NEC Table 392.7 (B)
Metal area requirements for cable trays used as equipment grounding conductors.

For SI units: 1 in.^{2} = 645 mm^2

NEC Table 392.7 (B) – Metal area requirements for cable trays used as equipment grounding conductors.

Maximum fuse ampere rating, circuit breaker ampere trip setting or circuit breaker protective relay ampere trip setting for ground fault protection of any cable circuit in the cable tray system	Minimum cross-sectional area of metal* in square inches	
	Steel cable trays	Aluminum cable trays
60	0.20	0.20
100	0.40	0.20
200	0.70	0.20
400	1.00	0.40
600	1.50**	0.40
1000	–	0.60
1200	–	1.00
1600	–	1.50
2000	–	2.00**

* Total cross-sectional area of both side rails for ladder or trough-type cable trays: or the minimum cross-sectional area of metal in channel-type cable trays or cable trays of one-piece construction.
** Steel cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 600 amperes. Aluminum cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 2000 amperes.
For larger ampere ratings, an additional grounding conductor must be used.

See pages A237 to A239 for grounding and bonding products.

For more information on grounding and bonding cable tray, refer to section 4.7 of the NEMA VE 2-2006 cable tray installation guidelines.

Engineering cable tray Specification

Cable tray

- Cable tray shall be by one manufacturer and shall consist of straight sections, fittings and accessories per NEMA VE1-2006/CSA C22.2 No. 126.1-02. Cable tray must be listed by UL as equipment grounding conductor. There shall be no burrs, projections or sharp edges to damage the cable insulation.

Material

- **Aluminum** – All side rails, and rungs shall be of extruded aluminum type 6063-T6. Side rails shall be of I-beam construction.
- **Pregalvanized steel** – All side rails and rungs shall be of steel conforming to the requirements of ASTM A653/A653M-06a with G90 coating thickness. Side rail shall be reinforced with flanges turned inward.
- **Hot-dipped galvanized steel** – All side rails and rungs shall be made from steel conforming to the requirements of A1008/A1008M-07,SS grade 33, type 2 or A1011/A1011-06b SS, grade 33 and shall be hot-dipped galvanized after manufacture per ASTM A123 providing a minimum thickness of 1.50 oz per ft.^{2}
- **Stainless steel** – All cable tray and accessories shall be of type AISI 316 stainless steel.

Tray types

- **Ladder** – Ladder tray shall incorporate two side rails connected by lateral rungs. Rungs shall provide minimum 1 in. bearing surface and have slots perpendicular to the centerline of the rung on 1 in. centers for attachment of cable ties. Rungs shall also have an open slot to facilitate attachment of pipe straps and other accessories. Rungs shall be installed at 6, 9, 12 or 18 in. spacing. The rungs shall not be below the bottom of the side rail.
- **Solid Bottom** – Solid bottom tray shall incorporate two side rails connected by rungs on 12 in. centers with a solid sheet applied below the rungs.
- **Ventilated trough** – Ventilated trough tray shall incorporate two side rails connected by rungs at 4 in. spacing.

Dimensions

- **Side rail height** – Side rails heights shall be 3⅝, 4, 5, 6 and 7 in. Minimum loading depths shall be 2⅝, 3, 4, 5, and 6 in.
- **Length** – All cable tray straight sections shall be supplied in 12 ft., 24 ft., 3 m and 6 m lengths.
- **Width** – Cable tray shall be supplied in 6, 9, 12, 18, 24, 30 and 36 in. widths as required.
- **Radius fittings** – For all fittings requiring a radius, that radius shall be 12, 24, 36 or 48 in. and shall be measured to the nearest perpendicular surface.

Accessories

- **Covers and accessories** – Covers shall be supplied to protect tray cable where needed. Appropriate hold-downs shall be supplied to properly attach the covers to the tray.
- **Splice plates** – Aluminum splice plates shall be designed to snap into tray side rail and shall be supplied with four square neck carriage bolts and hex nuts for attachment. Steel splice plates shall be supplied with four square neck carriage bolts and hex nuts for attachment.

Loading capabilities

- Cable tray shall meet specified NEMA/CSA load ratings with safety factor of 1.5. The cable tray should also be able to support a 200 lb concentrated load at midspan over and above stated cable load.

Design and manufacture

- Cable tray design shall be that of T&B Cable Tray systems as manufactured by ABB.

Selection of ABB series of cable tray

Please refer to Table 2 for aluminum and Table 3 for steel

Table 1a – Span/load class designation – USA
(See Clauses 4.8.1, 4.8.2 and 6.1.2 (c).)

Load kg/m (lb/ft.)		Span, m (ft.)				
kg/m	(lb/ft.)	1.5 (5)	2.4 (8)	3.0 (10)	3.7 (12)	6.0 (20)
37	(25)	5AA	8AA	10AA	12AA	20AA
74	(50)	5A	8A	10A	12A	20A
112	(75)	–	8B	–	12B	20B
149	(100)	–	8C	–	12C	20C

Note: These ratings are also used in Mexico.

Table 1b – Span/load class designation – CANADA
(See Clauses 4.8.1, 4.8.2 and 6.1.2 (c).)

Load kg/m (lb/ft.)		Span, m (ft.)						
kg/m	(lb/ft.)	1.5 (5)	2.0	2.5	3.0 (10)	4.0	5.0	6.0 (20)
37	(25)	–	–	–	A	–	–	–
45	(30)	–	–	A	–	–	–	–
62	(42)	–	A	–	–	–	–	–
67	(45)	–	–	–	–	–	–	D
82	(55)	–	–	–	–	–	D	–
97	(65)	–	–	–	C	–	–	–
99	(67)	A	–	–	–	–	–	–
112	(75)	–	–	–	–	–	–	E
113	(76)	–	–	–	–	D	–	–
119	(80)	–	–	C	–	–	–	–
137	(92)	–	–	–	–	–	E	–
164	(110)	–	C	–	–	–	–	–
179	(120)	–	–	–	D	–	–	–
189	(127)	–	–	–	–	E	–	–
259	(174)	C	–	–	–	–	–	–
299	(200)	–	–	–	E	–	–	–

Table 2 – Aluminum load/span class designation

Side rail height (in.)	Series	Load depth (in.) nominal	NEMA class	CSA class
4	AH14	3	12B, 8C	C/3m
4	AH34	3	12C, 16B	D/6m
4	AH54	3	20B, 16C	E/6m
5	AH25	4	12C, 16A	D/6m
5	AH45	4	20B	E/6m
6	AH16	5	12C, 16A	D/6m
6	AH36	5	20B	E/6m
6	AH46	5	20C	E/6m
6	AH56	5	20C	E/6m
6	AH66	5	20C	E/6m
6	AH76	5	20C	E/6m
7	AH37	6	20C	E/6m
7	AH47	6	20C	E/6m
8	AH18	7	20C	E/6m

Table 3 – Steel load/span class designation

Side rail height (in.)	Series	Load depth (in.) nominal	NEMA class	CSA class
3⅝	SH13/SP13/SS13	2⅝	12A	C/3m
4	SH14/SP14/SS14	3	12C	D/3m
4	SH34/SP34/SS34	3	20A	D/6m
5	SH25/SP25/SS25	4	20A	D/6m
5	SH45/SP45/SS45	4	20B	E/6m
5	SH55/SP55/SS55	4	20C	E/6m
6	SH16/SP16/SS16	5	20A	D/6m
6	SH36/SP36/SS36	5	20B	E/6m
6	SH46/SP46/SS46	5	20C	E/6m
7	SH37/SP37/SS37	6	20C	E/6m

Aluminum cable tray
Overview

Features
- Straight side rail design: Extruded I-beam; nominal height 4 in. to 8 in.; loading height 3 in. to 7 in.
- Snap-in splice plate connection
- Reverse position of every other rung for bottom or top mounting of cable ties
- Versatile continuous open slot rungs (strut profile)
- Holes spaced 1 in. designed based on the exclusive Ty-Rap® cable tie slots (⅝ x ⅝)
- Extra wide rung
- Four bolt connection
- Choice of two styles of fitting (U and H) side rails

Applications

Commercial:
- Schools
- Hospitals
- Office buildings
- Airports
- Casinos
- Stadiums

Industrial:
- Petrochemical plants
- Automotive plants
- Paper plants
- Food processing
- Power plants
- Refineries
- Manufacturing
- Mining

Accessories
- Each pair of splice plates comes with ⅜ in. mounting hardware
- Complete line of accessories and support systems

Material
- 6063 aluminum alloy

Compliance
- CSA, NEMA, NEC, UL

Load ratings
- 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Aluminum cable tray
Straight lengths

Tray bottom types: ladder, ventilated and solid trough

Ladder
Extra wide aluminum rungs are welded to extruded aluminum I-beam side rails. Every second rung is reversed to allow for easy top or bottom mounting of cable ties and clamps. All edges and welds are rounded and smooth to prevent cable damage.

Ventilated*
A fabricated structure consisting of integral or separate longitudinal rails and a bottom having openings sufficient for the passage of air and utilizing 75% or less of the plan area of the surface to support cables. The maximum open spacings between cable support surfaces of transverse elements do not exceed 102 mm (4 in.) in the direction parallel to the tray side rails (rung edge to rung edge).

Solid trough**
A fabricated structure consisting of a bottom without ventilation openings within separate longitudinal side rails.

* For load CSA class C/3M, NEMA 8C or less, please see alternative ventilated series of cable tray called One-Piece found on pages A174 to A207 of the catalogue.

** Fast and easy snap-in splice plates are provided with each straight section.

Straight lengths number selection

How to create part numbers
ABB has created a numbering system based on the order of selection criteria. For example, the first selection issue is the environment to which the cable tray will be subjected. This selection will lead to the best material for your application. For complete details on the cable tray selection process, see page A9 in the technical section.

Methods
1. Select the material best suited to your environment. Refer to technical section page A9.
2. Determine the tray series using the NEMA/CSA load/span designations page A16, and sizing cable tray page A23.
3. Select nominal depth and width of tray based on cable loading. See sizing cable tray page A23.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray in meters or inches.

(A H 1 - 6) 24 - L09 - 144

Material prefix	
Aluminum	**A**

Style prefix	
H-Beam	**H**

Series		Side rail height (in.)	
Series 1 **	**1**	4"	**4**
Series 3	**3**		
Series 5	**5**		
Series 2	**2**	5"	**5**
Series 4	**4**		
Series 1	**1**	6"	**6**
Series 3	**3**		
Series 4	**4**		
Series 5	**5**		
Series 6	**6**		
Series 7	**7**		
Series 3	**3**	7"	**7**
Series 4	**4**		
Series 1**	**1**	8"	**8**

Width (in.)	
6 **	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

Bottom type	
6" rung spacing	**L06**
9" rung spacing	**L09**
12" rung spacing	**L12**
Ventilated ***	**V**
Solid trough ***	**S**

Length	
12 ft.	**144**
24 ft.	**288**
3 meters	**3**
6 meters	**6**
30 ft. †	**360**
40 ft. ‡	**480**

—
** Fittings not available for 8 in. side rail series 1.
—
*** For load CSA Class C/3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages A174 to A207 of this catalogue. Not offered in 40 ft. length.
—
† For series 76, 47 and 18 only.
—
‡ Only offered with series 1, 8 in. side rail height, width between 12 to 36 in.

Aluminum straight lengths

4 in. Straight sections/series 1-4 – Ladder, ventilated and solid trough

Technical specifications
All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the deflection factor.

4 in. Straight sections/series 1-4 – Ladder, ventilated and solid trough

		Support span (feet)							
Series		**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
AH1-4	**Load (lb)/ft.)**	300	169	108	75	–	–	–	–
	Deflection (in.)	0.339	0.602	0.94	1.354	–	–	–	–
	Deflection factor	0.0011	0.0036	0.0087	0.0181	–	–	–	–

Straight section number selection

(A H 1 - 4) 24 - L09 - 144

Material prefix	
Aluminum	**A**

Style prefix	
H-Beam	**H**

Series	
Series 1	**1**

Side rail height (in.)	
4	**4**

Width (in.)	
6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

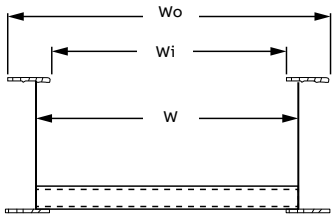
Bottom type	
6 in. rung spacing	**L06**
9 in. rung spacing	**L09**
12 in. rung spacing	**L12**
Ventilated ***	**V**
Solid trough	**S**

Length	
12 ft.	**144**
24 ft.	**288**
3 meters	**3**
6 meters	**6**

*** For load CSA class C/3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages A174 to A207 of this catalogue.

For fittings, consult pages A48 to A98.

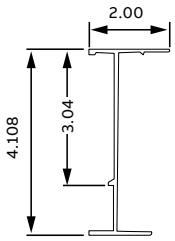
Dimensions

		AH1-4	
	W (in.)	**Wo (in.)**	**Wi (in.)**
	6	8.86	4.86
	9	11.86	7.86
	12	14.86	10.86
	18	20.86	16.86
	24	26.86	22.86
	30	32.86	28.86
	36	38.86	34.86
	42	44.86	40.86

Technical specifications

Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor

					Classifications
	Series	**Side rail design factors 1 pair**	**NEMA**	**CSA**	**UL**
AH1-4 	**AH1-4**	Ix = 2.58 in.^{4} Sx = 1.22 in.^{3} Area = 0.97 in.^{2}	12B, 8C	C/3m	UL cross sectional area: 0.60 in.^{2}

Aluminum straight lengths

4 in. Straight sections/series 3-4, 5-4 – Ladder, ventilated and solid trough

Technical specifications
All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

4 in. Straight sections/series 3-4, 5-4 – Ladder, ventilated and solid trough

		Support span (feet)							
Series		**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
AH3-4	**Load (lb)/ft.)**	567	319	204	142	104	80	63	51
	Deflection (in.)	0.473	0.842	1.315	1.894	2.578	3.367	4.261	5.261
	Deflection factor	0.0008	0.0026	0.0064	0.0134	0.0248	0.0423	0.0677	0.1032
AH5-4	**Load (lb)/ft.)**	1044	588	376	261	192	147	116	94
	Deflection (in.)	0.572	1.017	1.588	2.287	3.113	4.066	5.147	6.354
	Deflection factor	0.0005	0.0017	0.0042	0.0088	0.0162	0.0277	0.0443	0.0676

Straight section number selection

(A H 5 - 4) 24 - L09 - 144

Material prefix
Aluminum **A**

Style prefix
H-Beam **H**

Series
Series 3 **3**
Series 5 **5**

Side rail height (in.)
4 **4**

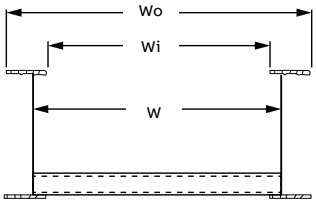
Width (in.)
6 **06**
9 **09**
12 **12**
18 **18**
24 **24**
30 **30**
36 **36**
42 **42**

Bottom type
6 in. rung spacing **L06**
9 in. rung spacing **L09**
12 in. rung spacing **L12**
Ventilated **V**
Solid trough **S**

Length
12 ft. **144**
24 ft. **288**
3 meters **3**
6 meters **6**

For fittings, consult pages A48 to A98.

Dimensions



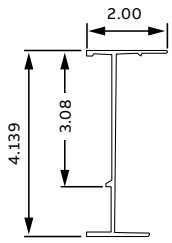
	AH3-4		AH5-4	
W (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.86	4.86	8.86	4.86
9	11.86	7.86	11.86	7.86
12	14.86	10.86	14.86	10.86
18	20.86	16.86	20.86	16.86
24	26.86	22.86	26.86	22.86
30	32.86	28.86	32.86	28.86
36	38.86	34.86	38.86	34.86
42	44.86	40.86	44.86	40.86

Technical specifications

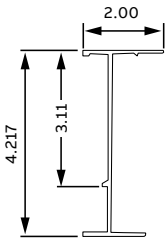
Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor

			Classifications		
	Series	Side rail design factors 1 pair	NEMA	CSA	UL
AH3-4	**AH3-4**	Ix = 3.49 in.^{4} Sx = 1.64 in.^{3} Area = 1.28 in.^{2}	12C, 16B	D/6m	UL cross sectional area: 1.00 in.^{2}
	AH5-4	Ix = 5.33 in.^{4} Sx = 2.36 in.^{3} Area = 1.93 in.^{2}	20B, 16C	E/6m	UL cross sectional area: 1.50 in.^{2}



AH5-4



Aluminum straight lengths

5 in. Straight sections/series 2-5, 4-5 – Ladder, ventilated and solid trough

Technical specifications
All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

4 in. Straight sections/series 3-4, 5-4 – Ladder, ventilated and solid trough

		Support span (feet)							
Series		**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
AH2-5	**Load (lb)/ft.)**	556	313	200	139	102	78	62	50
	Deflection (in.)	0.302	0.536	0.838	1.206	1.642	2.144	2.714	3.351
	Deflection factor	0.0005	0.0017	0.0042	0.0087	0.0161	0.0274	0.0440	0.0670
AH4-5	**Load (lb)/ft.)**	900	506	324	225	165	127	100	81
	Deflection (in.)	0.340	0.604	0.944	1.359	1.849	2.416	3.057	3.774
	Deflection factor	0.0004	0.0012	0.0029	0.0060	0.0112	0.0191	0.0306	0.0466

Straight section number selection

(A H 2 - 5) 24 - L09 - 144

Material prefix
Aluminum **A**

Style prefix
H-Beam **H**

Series
Series 2 **2**
Series 4 **4**

Side rail height (in.)
5 **5**

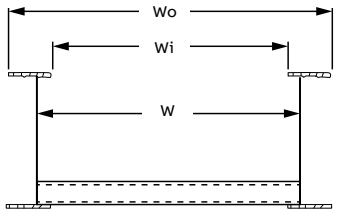
Width (in.)
6 **06**
9 **09**
12 **12**
18 **18**
24 **24**
30 **30**
36 **36**
42 **42**

Bottom type
6 in. rung spacing **L06**
9 in. rung spacing **L09**
12 in. rung spacing **L12**
Ventilated **V**
Solid trough **S**

Length
12 ft. **144**
24 ft. **288**
3 meters **3**
6 meters **6**

For fittings, consult pages A48 to A98.

Dimensions



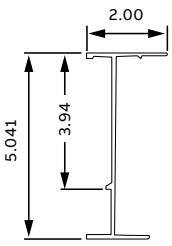
	AH2-5		AH4-5	
W (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.86	4.86	8.86	4.86
9	11.86	7.86	11.86	7.86
12	14.86	10.86	14.86	10.86
18	20.86	16.86	20.86	16.86
24	26.86	22.86	26.86	22.86
30	32.86	28.86	32.86	28.86
36	38.86	34.86	38.86	34.86
42	44.86	40.86	44.86	40.86

Technical specifications

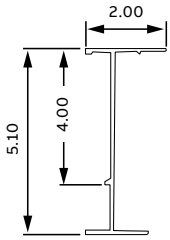
Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor

AH2-5



AH4-5



			Classifications		
	Series	Side rail design factors 1 pair	NEMA	CSA	UL
	AH2-5	Ix = 5.37 in.^{4} Sx = 2.02 in.^{3} Area = 1.39 in.^{2}	12C, 16A	D/6m	UL cross sectional area: 1.00 in.^{2}
	AH4-5	Ix = 7.73 in.^{4} Sx = 2.92 in.^{3} Area = 1.94 in.^{2}	20B	E/6m	UL cross sectional area: 1.50 in.^{2}

Aluminum straight lengths

6 in. Straight sections/series 1-6, 3-6 – Ladder, ventilated and solid trough

Technical specifications
All calculations and data are based on 36 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

6 in. Straight sections/series 1-6, 3-6 – Ladder, ventilated and solid trough

		Support span (feet)							
Series		**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
AH1-6	**Load (lb)/ft.)**	567	319	204	142	104	80	63	51
	Deflection (in.)	0.190	0.338	0.527	0.760	1.034	1.350	1.709	2.110
	Deflection factor	0.0003	0.0011	0.0026	0.0054	0.0099	0.0169	0.0271	0.0414
AH3-6	**Load (lb)/ft.)**	889	500	320	222	163	125	99	80
	Deflection (in.)	0.203	0.360	0.563	0.810	1.103	1.440	1.823	2.250
	Deflection factor	0.0002	0.0007	0.0018	0.0036	0.0068	0.0115	0.0185	0.0281

Straight section number selection

(A H 1 - 6) 24 - L09 - 144

Material prefix	
Aluminum	**A**

Style prefix	
H-Beam	**H**

Series	
Series 1	**1**
Series 3	**3**

Side rail height (in.)	
6	**6**

Width (in.)	
6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

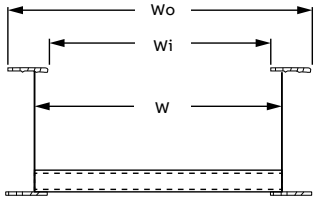
Bottom type	
6 in. rung spacing	**L06**
9 in. rung spacing	**L09**
12 in. rung spacing	**L12**
Ventilated**	**V**
Solid trough	**S**

Length	
12 ft.	**144**
24 ft.	**288**
3 meters	**3**
6 meters	**6**

** For load ratings of CSA class C/NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages A174 to A207 of this catalogue.

For fittings, consult pages A48 to A98.

Dimensions



	AH1-6		AH3-6	
W (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.86	4.86	8.86	4.86
9	11.86	7.86	11.86	7.86
12	14.86	10.86	14.86	10.86
18	20.86	16.86	20.86	16.86
24	26.86	22.86	26.86	22.86
30	32.86	28.86	32.86	28.86
36	38.86	34.86	38.86	34.86
42	44.86	40.86	44.86	40.86

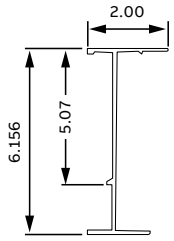
Technical specifications

Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

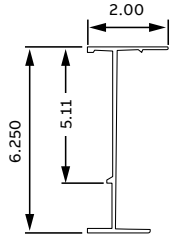
Load ratings: 1.5 safety factor

Series	Side rail design factors 1 pair	Classifications NEMA	CSA	UL
AH1-6	Ix = 8.7 in.^{4} Sx = 2.71 in.^{3} Area = 1.55 in.^{2}	12C, 16A	D/6m	UL cross sectional area: 1.00 in.^{2}
AH3-6	Ix = 12.8 in.^{4} Sx = 3.77 in.^{3} Area = 2.07 in.^{2}	20B	E/6m	UL cross sectional area: 2.00 in.^{2}

AH1-6



AH3-6



Aluminum straight lengths

6 in. Straight sections/series 4-6, 5-6, 6-6, 7-6 – Ladder, ventilated and solid trough

Technical specifications
All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

6 in. Straight sections/series 1-6, 3-6 – Ladder, ventilated and solid trough

		Support span (feet)												
Series		**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**	**22**	**24**	**26**	**28**	**30**
AH4-6	**Load (lb)/ft.)**	1111	625	400	278	204	156	123	100	–	–	–	–	–
	Deflection (in.)	0.235	0.418	0.653	0.940	1.280	1.672	2.115	2.612	–	–	–	–	–
	Deflection factor	0.0002	0.0007	0.0016	0.0034	0.0063	0.0107	0.0171	0.0261	–	–	–	–	–
AH5-6	**Load (lb)/ft.)**	–	750	480	333	245	188	148	120	–	–	–	–	–
	Deflection (in.)	–	0.441	0.690	0.993	1.352	1.766	2.234	2.759	–	–	–	–	–
	Deflection factor	–	0.0006	0.0014	0.0030	0.0055	0.0094	0.0151	0.0230	–	–	–	–	–
AH6-6	**Load (lb)/ft.)**	–	1031	660	458	337	258	204	165	126	106	91	78	68
	Deflection (in.)	–	0.504	0.788	1.134	1.544	2.016	2.552	3.151	3.536	4.208	4.938	5.727	6.575
	Deflection factor	–	0.0005	0.0012	0.0025	0.0046	0.0078	0.0125	0.0191	0.0280	0.0396	0.0545	0.0734	0.0967
AH7-6	**Load (lb)/ft.)**		1153	738	513	377	288	228	185	152	128	109	94	82
	Deflection (in.)	–	0.484	0.756	1.089	1.482	1.936	2.451	3.025	3.661	4.537	5.113	5.930	6.807
	Deflection factor	–	0.0004	0.0010	0.0021	0.0039	0.0067	0.0108	0.0164	0.0240	0.0340	0.0468	0.0630	0.0830

Straight section number selection

(A H 5 - 6) 24 - L09 - 144

Material prefix
Aluminum **A**

Style prefix
H-Beam **H**

Series
Series 4 **4**
Series 5 **5**
Series 6 **6**
Series 7 **7**

Side rail height (in.)
6 **6**

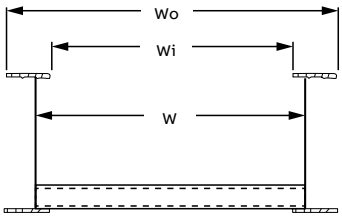
Width (in.)
6 **06**
9 **09**
12 **12**
18 **18**
24 **24**
30 **30**
36 **36**
42 **42**

Bottom type
6 in. rung spacing **L06**
9 in. rung spacing **L09**
12 in. rung spacing **L12**
Ventilated **V**
Solid trough **S**

Length
12 ft. **144**
24 ft. **288**
3 meters **3**
6 meters **6**

For fittings, consult pages A48 to A98.

Dimensions



	AH4-6		AH5-6	
W (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.86	4.86	8.86	4.86
9	11.86	7.86	11.86	7.86
12	14.86	10.86	14.86	10.86
18	20.86	16.86	20.86	16.86
24	26.86	22.86	26.86	22.86
30	32.86	28.86	32.86	28.86
36	38.86	34.86	38.86	34.86
42	44.86	40.86	44.86	40.86

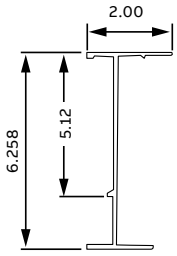
	AH6-6		AH7-6	
W (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.86	4.86	8.86	4.86
9	11.86	7.86	11.86	7.86
12	14.86	10.86	14.86	10.86
18	20.86	16.86	20.86	16.86
24	26.86	22.86	26.86	22.86
30	32.86	28.86	32.86	28.86
36	38.86	34.86	38.86	34.86
42	44.86	40.86	44.86	40.86

Technical specifications

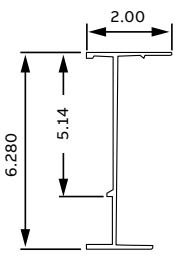
Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor

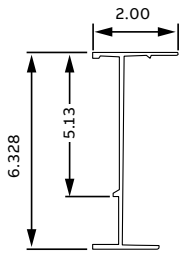
AH4-6



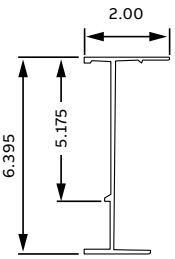
AH5-6



AH6-6



AH7-6



		Classifications		
Series	Side rail design factors 1 pair	NEMA	CSA	UL
AH4-6	Ix = 13.78 in.^{4} Sx = 4.05 in.^{3} Area = 2.32 in.^{2}	20C	Exceeds E/6m	UL cross sectional area: 2.00 in.^{2}
AH5-6	Ix = 15.66 in.^{4} Sx = 4.64 in.^{3} Area = 2.67 in.^{2}	Exceeds 20C	Exceeds E/6m	UL cross sectional area: 2.00 in.^{2}
AH6-6	Ix = 18.85 in.^{4} Sx = 5.53 in.^{3} Area = 3.26 in.^{2}	Exceeds 20C	Exceeds E/6m	UL cross sectional area: 2.00 in.^{2}
AH7-6	Ix = 21.95 in.^{4} Sx = 6.32 in.^{3} Area = 3.82 in.^{2}	Exceeds 20C	Exceeds E/6m	UL cross sectional area: 2.00 in.^{2}

Aluminum straight lengths

7 in. and 8 in. Straight sections/series 3-7, 4-7, 1-8 – Ladder, ventilated and solid trough

Technical specifications
All calculations and data for AH3-7 and AH4-7 series are based on 42'' wide cable tray with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint.

All calculations and data for AH1-8 series are based on cable tray with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint.

Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

7 in. Straight sections/series 3-7, 4-7, ventilated and solid trough

		Support span (feet)												
Series		**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**	**22**	**24**	**26**	**28**	**30**
AH3-7	**Load (lb)/ft.)**	–	925	592	411	302	231	183	148	97	81	–	–	–
	Deflection (in.)	–	0.335	0.524	0.755	1.027	1.342	1.698	2.097	2.009	2.391	–	–	–
	Deflection factor	–	0.0004	0.0009	0.0018	0.0034	0.0058	0.0093	0.0142	0.0208	0.0294	–	–	–
AH4-7	**Load (lb)/ft.)**	–	–	909	631	464	355	281	227	188	158	134	116	101
	Deflection (in.)	–	–	0.556	0.800	1.089	1.422	1.800	2.222	2.689	3.200	3.756	4.356	5.000
	Deflection factor	–	–	0.0006	0.0013	0.0023	0.0040	0.0064	0.0098	0.0143	0.0203	0.0279	0.0376	0.0495

8 in. Straight sections/series 1-8 – Ladder trough

		Support span (ft.)											
Series		**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**
AH1-8	**Load (lb)/ft.)**	528	428	353	297	253	218	190	167	148	132	118	112
	Deflection (in.)	2.136	2.637	3.191	3.797	4.457	5.169	5.933	6.751	7.625	8.548	9.486	11.054
	Deflection factor	0.004	0.0062	0.009	0.0128	0.0176	0.0237	0.0312	0.0404	0.0515	0.0648	0.0804	0.0987

For detailed width load testing, please refer to http://tnb.ca/en/pdf-catalogues/cable-tray-systems/technical-bulletin/.

Straight section number selection

(A H 3 - 7) 24 - L09 - 144

Material prefix	
Aluminum	**A**

Style prefix	
H-Beam	**H**

Series	
Series 3	**3**

Side rail height (in.)	
7	**7**

Width (in.)	
6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

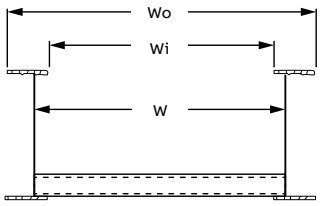
Bottom type	
6 in. rung spacing	**L06**
9 in. rung spacing	**L09**
12 in. rung spacing	**L12**
Ventilated	**V**
Solid trough	**S**

Length	
12 ft.	**144**
24 ft.	**288**
3 meters	**3**
6 meters	**6**
40 ft.*	**480**

* Refer to page A35.

For fittings, consult pages A48 to A98.

Dimensions



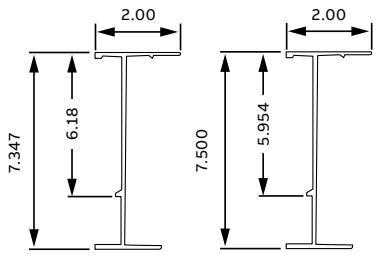
	AH3-7		AH4-7		AH1-8	
W (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.86	4.86	8.86	4.86	7.82	1.82
9	11.86	7.86	11.86	7.86	10.82	4.82
12	14.86	10.86	14.86	10.86	13.82	7.82
18	20.86	16.86	20.86	16.86	19.82	13.82
24	26.86	22.86	26.86	22.86	25.82	19.82
30	32.86	28.86	32.86	28.86	31.82	25.82
36	38.86	34.86	38.86	34.86	37.82	31.82
42	44.86	40.86	44.86	40.86	43.82	37.82

Technical specifications

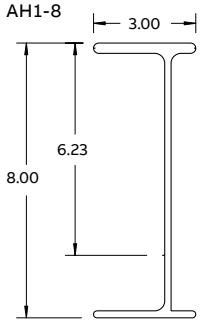
Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor

AH3-7 AH4-7



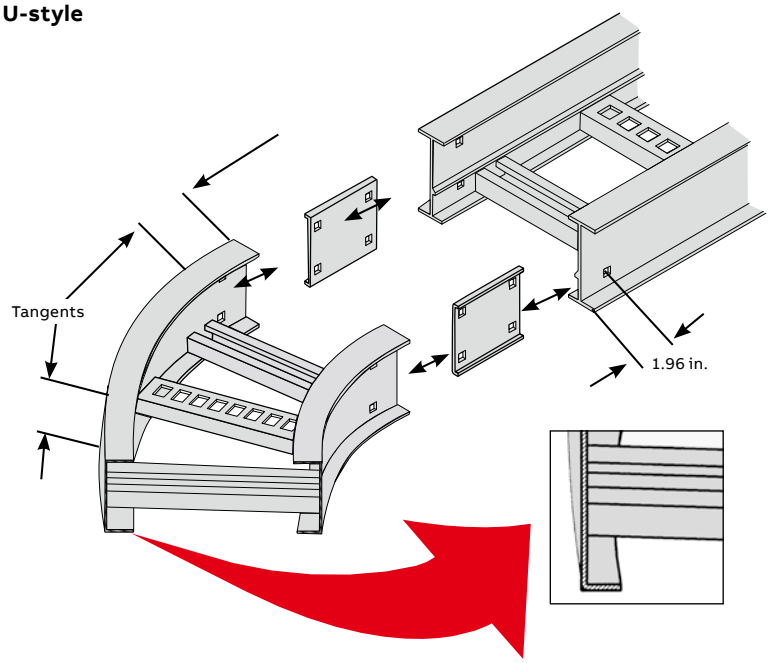
AH1-8



Series	Side rail design factors 1 pair	Classifications NEMA	CSA	UL
AH3-7	Ix = 25.41 in.^{4} Sx = 6.46 in.^{3} Area = 3.29 in.^{2}	Exceeds 20C	Exceeds E/6m	UL cross sectional area: 2.00 in.^{2}
AH4-7	Ix = 36.81 in.^{4} Sx = 9.08 in.^{3} Area = 4.63 in.^{2}	Exceeds 20C	Exceeds E/6m	UL cross sectional area: 2.00 in.^{2}
AH1-8	Ix = 58.36 in.^{4} Sx = 13.37 in.^{3} Area = 5.86 in.^{2}	Exceeds 20C	Exceeds E/6m	UL cross sectional area: 2.00 in.^{2}

Aluminum cable tray
Fittings – Explaining the fitting styles

U-style

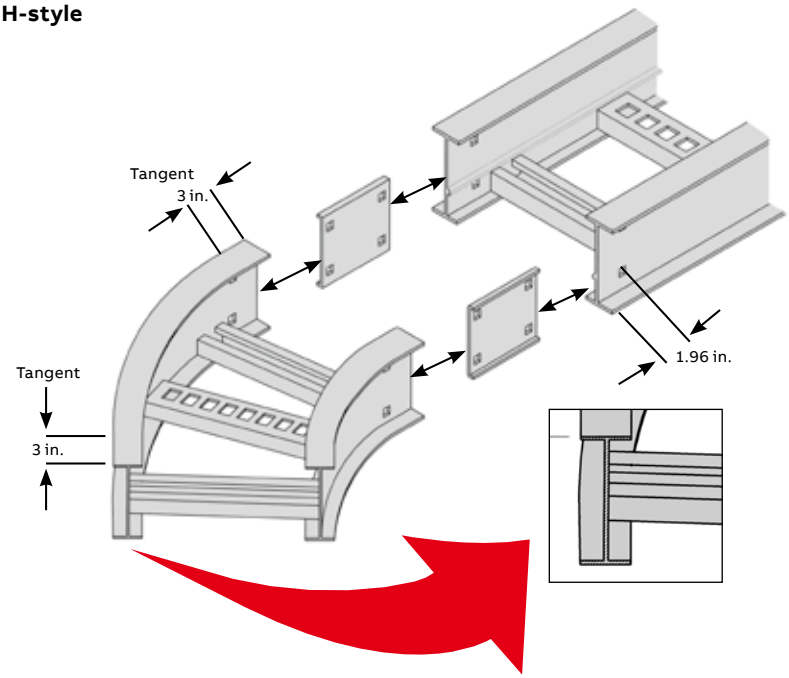


U-style

U-style fittings constructed with side rail flanges on the inside only (U-beam)*

Features and benefits
- U-style and H-style are interchangeable
- Lowest purchase price
- Easy to install
- Occupies less space in areas where space is restrained
- Easy-to-align straights
- Splice plate holds components together while hardware is inserted
- Lighter fittings are easy to handle
- Functional design
- Tangents on fittings
- 7 in. length snap-in splice plate

H-style



H-style

H-style fittings constructed with side rail having inner and outer flanges (H-beam).*

Features and benefits
- Improved system rigidity
- Improved aesthetics and customer appeal
- Easy to install
- Easy to align straights and fittings
- Splice plate holds components together while hardware is inserted
- Premium design
- 3 in. tangents on fittings
- 7 in. length snap-in splice plate

* T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

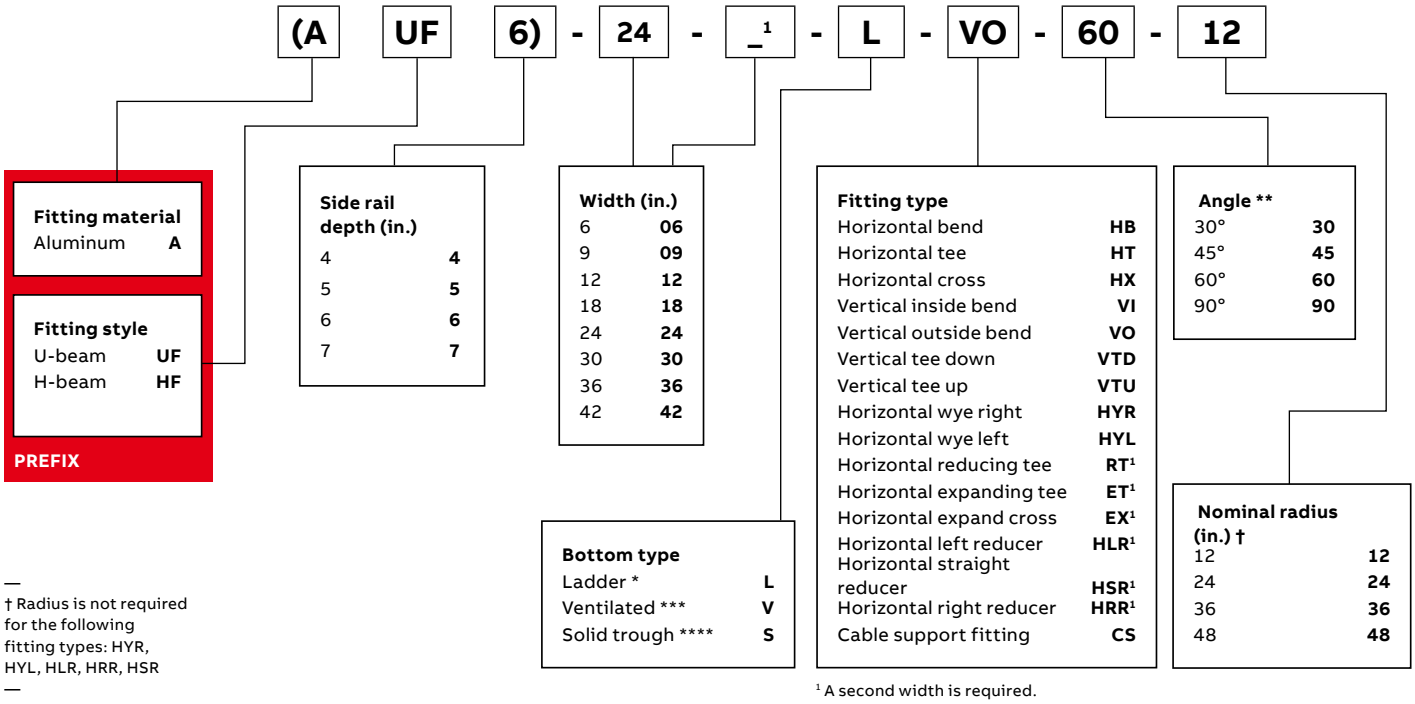
Horizontal fittings selection

The U-style and H-style systems are interchangeable.

Fittings in a cable tray system are required to change cable routing direction and to join straight sections and other fittings. This step of the cable tray selection process requires that the specifier chooses between two distinct styles, U and H.

H-style fitting
- An H-shaped extrusion forms the fitting side rail.
- H-style fittings utilize a 7 in. splice plate and have 3 in. tangents at the extremities.
- This style offers enhanced aesthetics to the end-user and increased system rigidity.

U-style fitting
- A U-shaped extrusion forms the fitting side rail.
- U-style fittings utilize a 7 in. splice plate and have tangents at the extremities.
- This style offers maximum quality versus cost ratios of the installation.



[1] A second width is required.

† Radius is not required for the following fitting types: HYR, HYL, HLR, HRR, HSR

* Manufactured with 9 in. rung spacing measured at the center line of fitting.

** Angle is required for HB, VI, VO only.

*** Manufactured with 4 in. edge-to-edge rung spacing measured at the center line of fitting.

**** Manufactured with flat sheet inserted under rungs with 9 in. rung spacing measured at the center line of fitting.

Aluminum horizontal fittings

U- and H-style horizontal fittings selection guide – Bends

01 **U-style**
90° Horizontal bend
Page A60

02 **U-style**
60° Horizontal bend
Page A61

03 **U-style**
45° Horizontal bend
Page A64

04 **U-style**
30° Horizontal bend
Page A65

05 **H-style**
90° Horizontal bend
Page A62

06 **H-style**
60° Horizontal bend
Page A63

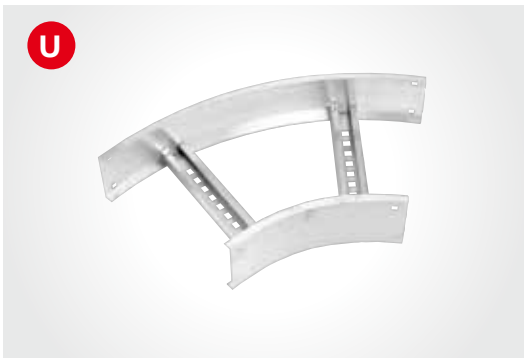
07 **H-style**
45° Horizontal bend
Page A66

08 **H-style**
30° Horizontal bend
Page A67

T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

01

05



02

06

03

07

04

08

H = H-style

U = U-style

Aluminum horizontal fittings

U- and H-style horizontal fittings selection guide – Tees and crosses

01 **U-style**
Tee
Page A68

02 **U-style**
Cross
Page A69

03 **U-style**
Horizontal reducing tee
Page A72

04 **H-style**
Tee
Page A70

05 **H-style**
Cross
Page A71

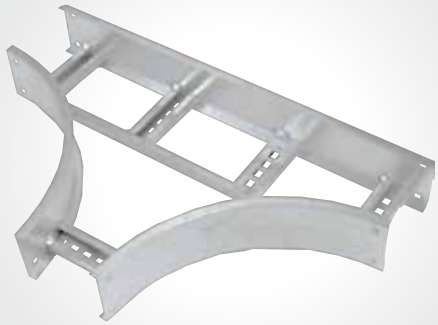
06 **H-style**
Horizontal reducing tee
Page A713

T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

H = H-style

U = U-style

U

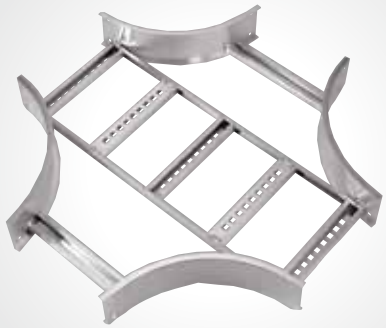


01

H

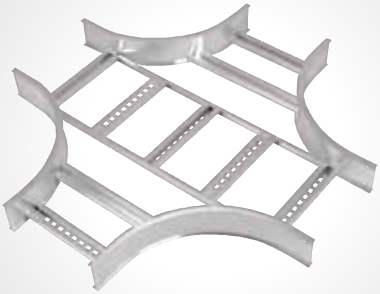
04

U



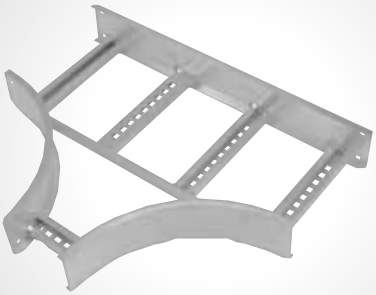
02

H



05

U



03

H

06

Aluminum horizontal fittings

U- and H-style horizontal fittings selection guide – Tees and crosses (continued)

01 **U-style**
Horizontal expanding tee
Page A74

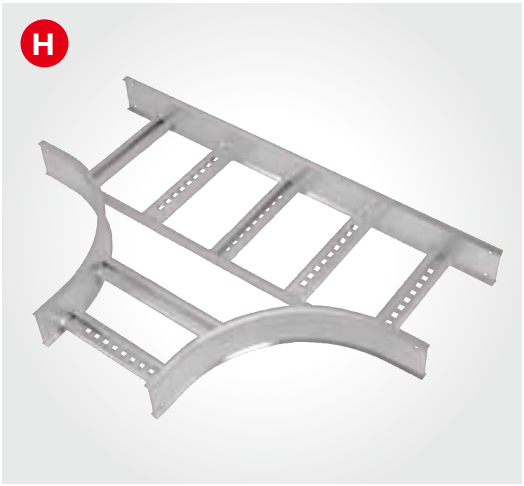
02 **U-style**
Horizontal expanding cross
Page A76

03 **H-style**
Horizontal expanding tee
Page A75

04 **H-style**
Horizontal expanding cross
Page A77

T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

01



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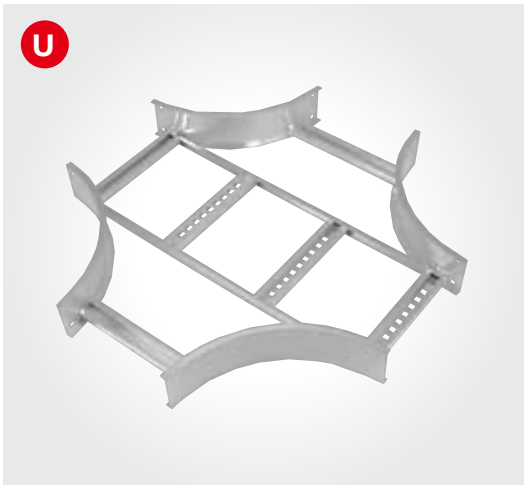

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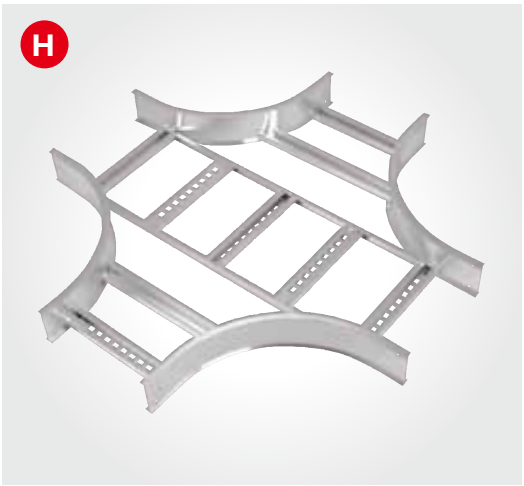


04

H = H-style

U = U-style

Aluminum vertical fittings

U- and H-style vertical fittings selection guide – Reducers and wyes

01 **U-style**
Offset reducer right
Page A78

02 **U-style**
Reducer straight
Page A78

03 **U-style**
Offset reducer left
Page A78

04 **H-style**
Offset reducer right
Page A80

05 **H-style**
Reducer straight
Page A80

06 **H-style**
Offset reducer left
Page A80

07 **U-style**
Left-hand wye
Page A82

08 **U-style**
Right-hand wye
Page A82

09 **H-style**
Left-hand wye
Page A83

10 **H-style**
Right-hand wye
Page A83

T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

01

02

03

04

05

06

07

08

09

10

H = H-style

U = U-style

Aluminum vertical fittings

U- and H-style vertical fittings selection guide – Bends

01 **U-style**
90° Outside bend
Page A84

02 **U-style**
90° Inside bend
Page A84

03 **U-style**
60° Outside bend
Page A86

04 **U-style**
60° Inside bend
Page A86

05 **H-style**
90° Outside bend
Page A85

06 **H-style**
90° Inside bend
Page A85

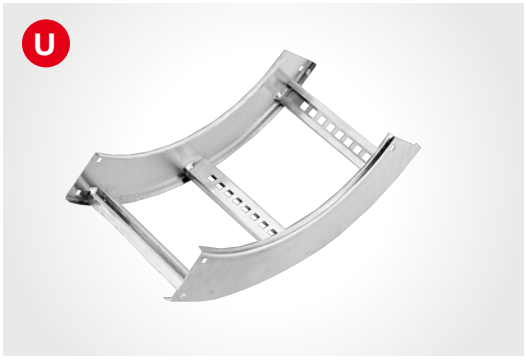
07 **H-style**
60° Outside bend
Page A87

08 **H-style**
60° Inside bend
Page A87

T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

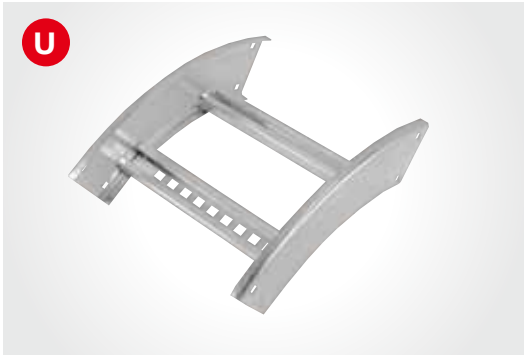
01

05



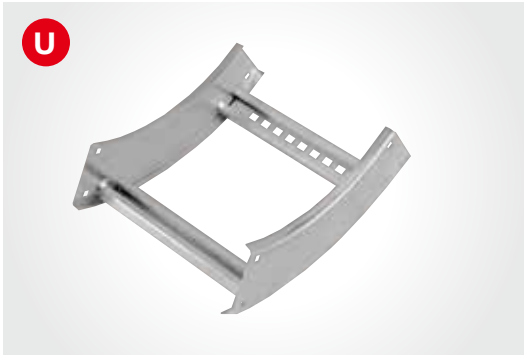
02

06



03

07



04

08

H = H-style

U = U-style

09 **U-style**
45° Outside bend
Page A88

10 **U-style**
45° Inside bend
Page A88

11 **U-style**
30° Outside bend
Page A90

12 **U-style**
30° Inside bend
Page A90

13 **H-style**
45° Outside bend
Page A89

14 **H-style**
45° Inside bend
Page A89

15 **H-style**
30° Outside bend
Page A91

16 **H-style**
30° Inside bend
Page A91

T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

09

13

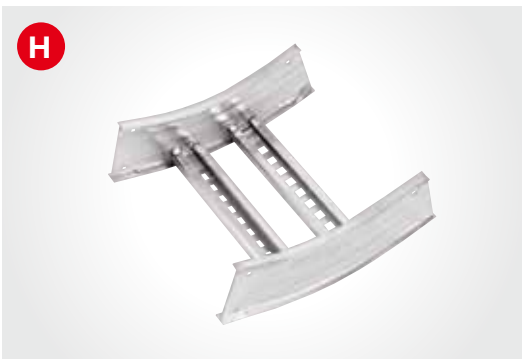
10

14

11

15

12



16

H = H-style

U = U-style

Aluminum vertical fittings

U- and H-style vertical fittings selection guide – Tees up/down

01 **U-style**
Vertical tee up
Page A92

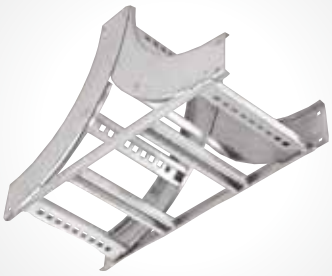
02 **U-style**
Vertical tee down
Page A92

03 **H-style**
Vertical tee up
Page A93

04 **H-style**
Vertical tee down
Page A93

T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

U

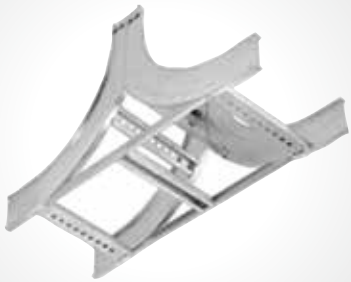


01

U

02

H



05

H

06

H = H-style

U = U-style

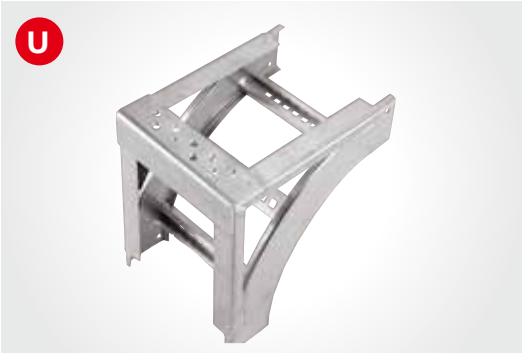
Aluminum vertical fittings

U- and H-style vertical fittings selection guide – Cable supports

01 **U-style**
Cable support
Page A94

02 **H-style**
Cable support
Page A95

T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.



01

02

H = H-style

U = U-style

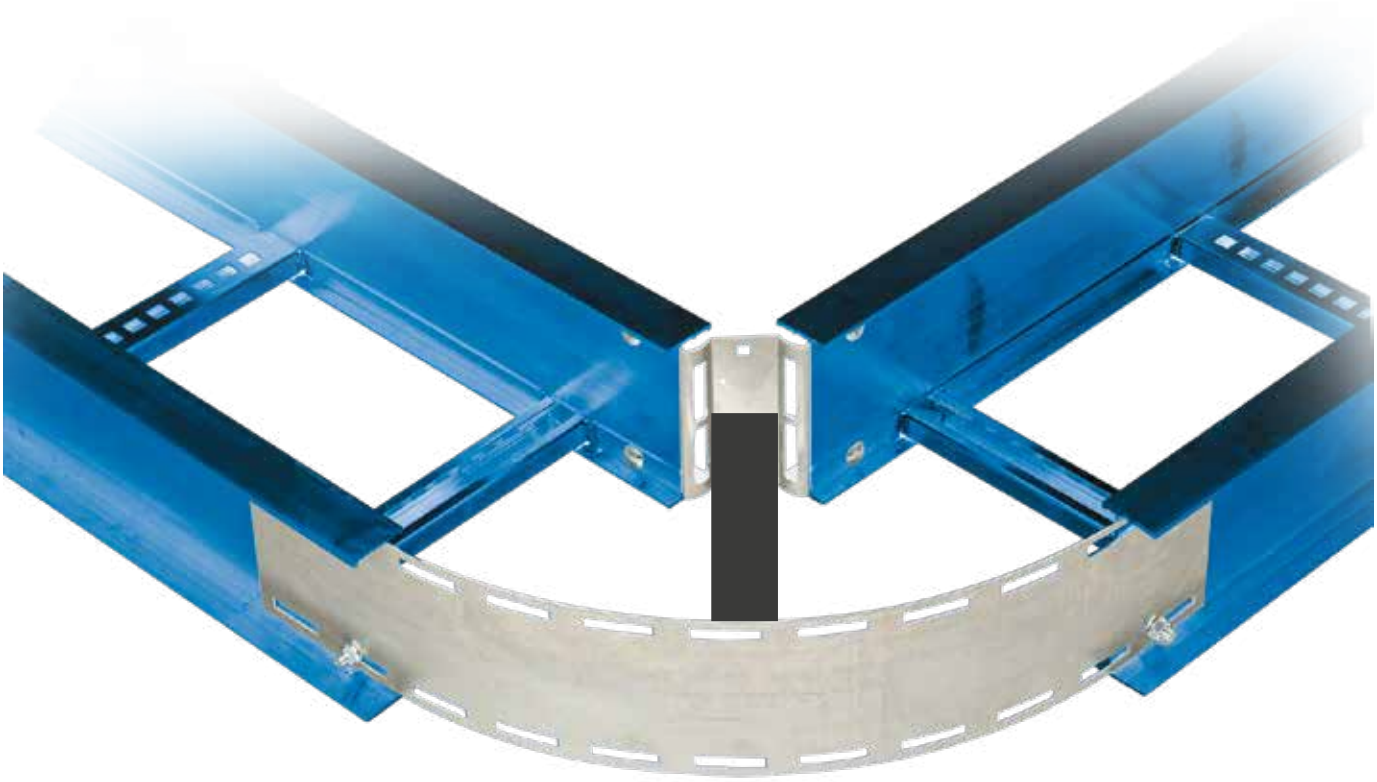
Aluminum fittings
Flexible coupler

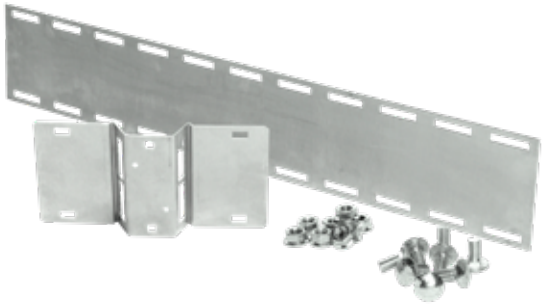
Exterior strap provides accurate radius to meet your cable tray design requirements.
The flexible coupler provides easy installation without measuring and cutting cable tray side rails. Once installed, the coupler allows for electrical continuity, therefore eliminating the requirement for a bonding jumper.

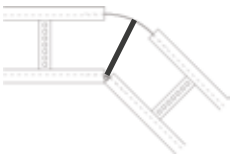
- Formed ribs provide better cable protection
- Fast and easy installation
- Meets the electrical continuity requirement of NEMA VE1 and CSA C22.2 No. 126.1

Features and benefits

- Reduces installation time
- No need for a bonding jumper
- Flexible and economical alternative to regular AU/AH fitting

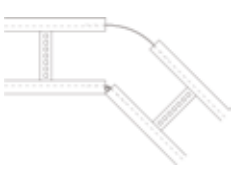






Aluminum fittings

Aluminum – Flexible coupler



Aluminum – Flexible coupler

Cat. no.	Material	Side rail height (in.)	Tray width (in.)
ABW-(*)06HBP	Aluminum	4 to 7	06
ABW-(*)09HBP	Aluminum	4 to 7	09
ABW-(*)12HBP	Aluminum	4 to 7	12
ABW-(*)18HBP	Aluminum	4 to 7	18
ABW-(*)24HBP	Aluminum	4 to 7	24
ABW-(*)30HBP	Aluminum	4 to 7	30
ABW-(*)36HBP	Aluminum	4 to 7	36

*Insert side rail height

Optional rung information (provides additional cable support)

Cat. no.	Material	Tray width (in.)
ABW-R(*)HBP	Aluminum	06
	Aluminum	09
	Aluminum	12
	Aluminum	18
	Aluminum	24
	Aluminum	30
	Aluminum	36

* Insert tray width

Load rating with optional rung

				Side rail height
	3 in.		4 and 5 in.	6 and 7 in.
Tray width	(76 mm)		(102 and 127 mm)	(152 and 178 mm)
36 in. (914 mm)	50 lb/ft. (74 kg/m)	Al: 75 lb/ft. (112 kg/m)	Steel: 50 lb/ft. (74 kg/m)	100 lb/ft. (149 kg/m)
30 in. (762 mm)	75 lb/ft. (112 kg/m)		100 lb/ft. (149 kg/m)	100 lb/ft. (149 kg/m)
6 to 24 in. (152 to 610 mm)	100 lb/ft. (149 kg/m)		100 lb/ft. (149 kg/m)	100 lb/ft. (149 kg/m)

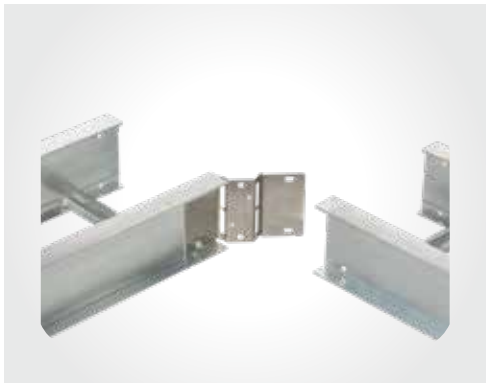
01 Fasten flexible coupler to tray.

02 Bend.

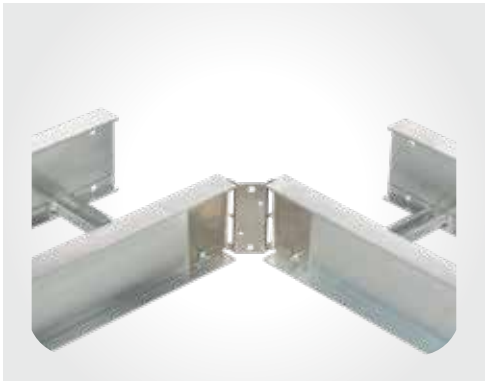
03 Fasten to the other length of cable tray.

04 Fasten the strap.

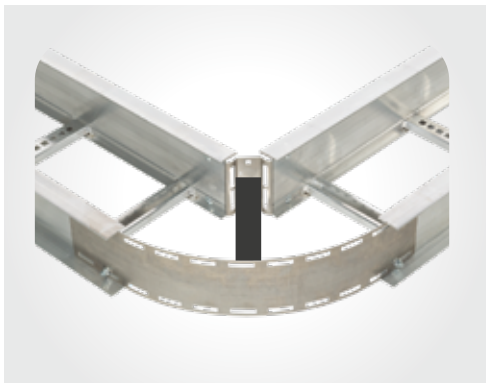
01



02



03

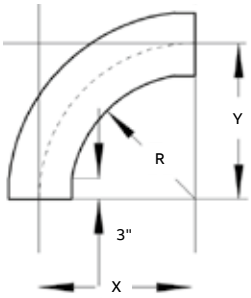


04

Aluminum fittings

90°/60° U-style horizontal bend fittings

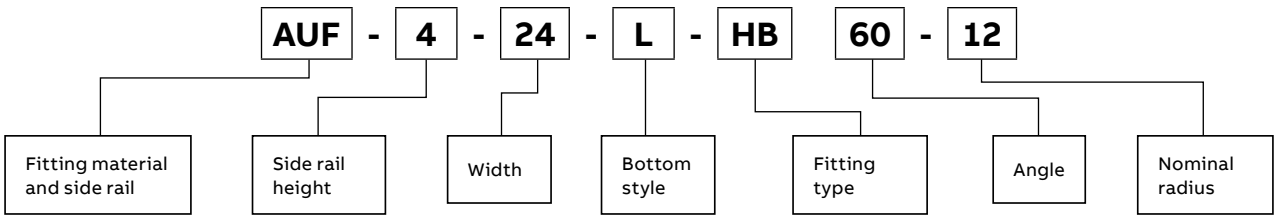
90° Horizontal bend – U-style



Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) X	Y
12	6	AUF(†)-06-(*)-HB90-12	15	15
12	9	AUF(†)-09-(*)-HB90-12	16½	16½
12	12	AUF(†)-12-(*)-HB90-12	18	18
12	18	AUF(†)-18-(*)-HB90-12	21	21
12	24	AUF(†)-24-(*)-HB90-12	24	24
12	30	AUF(†)-30-(*)-HB90-12	27	27
12	36	AUF(†)-36-(*)-HB90-12	30	30
12	42	AUF(†)-42-(*)-HB90-12	33	33
24	6	AUF(†)-06-(*)-HB90-24	27	27
24	9	AUF(†)-09-(*)-HB90-24	28½	28½
24	12	AUF(†)-12-(*)-HB90-24	30	30
24	18	AUF(†)-18-(*)-HB90-24	33	33
24	24	AUF(†)-24-(*)-HB90-24	36	36
24	30	AUF(†)-30-(*)-HB90-24	39	39
24	36	AUF(†)-36-(*)-HB90-24	42	42
24	42	AUF(†)-42-(*)-HB90-24	45	45
36	6	AUF(†)-06-(*)-HB90-36	39	39
36	9	AUF(†)-09-(*)-HB90-36	40½	40½
36	12	AUF(†)-12-(*)-HB90-36	42	42
36	18	AUF(†)-18-(*)-HB90-36	45	45
36	24	AUF(†)-24-(*)-HB90-36	48	48
36	30	AUF(†)-30-(*)-HB90-36	51	51
36	36	AUF(†)-36-(*)-HB90-36	54	54
36	42	AUF(†)-42-(*)-HB90-36	57	57
48	6	AUF(†)-06-(*)-HB90-48	51	51
48	9	AUF(†)-09-(*)-HB90-48	52½	52½
48	12	AUF(†)-12-(*)-HB90-48	54	54
48	18	AUF(†)-18-(*)-HB90-48	57	57
48	24	AUF(†)-24-(*)-HB90-48	60	60
48	30	AUF(†)-30-(*)-HB90-48	63	63
48	36	AUF(†)-36-(*)-HB90-48	66	66
48	42	AUF(†)-42-(*)-HB90-48	69	69

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



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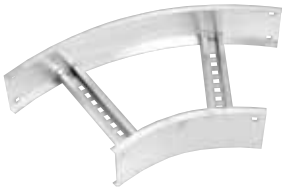
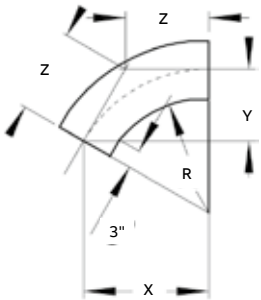
60° Horizontal bend – U-style





Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) X	Y	Z
12	6	AUF(†)-06-(*)-HB60-12	14 7/8	8 5/8	9 15/16
12	9	AUF(†)-09-(*)-HB60-12	16 3/16	9 3/8	10 13/16
12	12	AUF(†)-12-(*)-HB60-12	17 1/2	10 1/8	11 11/16
12	18	AUF(†)-18-(*)-HB60-12	20 1/16	11 5/8	13 3/8
12	24	AUF(†)-24-(*)-HB60-12	22 11/16	13 1/8	15 1/8
12	30	AUF(†)-30-(*)-HB60-12	25 5/16	14 5/8	16 7/8
12	36	AUF(†)-36-(*)-HB60-12	27 7/8	16 1/8	18 9/16
12	42	AUF(†)-42-(*)-HB60-12	30 1/2	17 5/8	20 5/16
24	6	AUF(†)-06-(*)-HB60-24	25 5/16	14 5/8	16 7/8
24	9	AUF(†)-09-(*)-HB60-24	26 9/16	15 3/8	17 3/4
24	12	AUF(†)-12-(*)-HB60-24	27 7/8	16 1/8	18 9/16
24	18	AUF(†)-18-(*)-HB60-24	30 1/2	17 5/8	20 5/16
24	24	AUF(†)-24-(*)-HB60-24	33 1/16	19 1/8	22 1/16
24	30	AUF(†)-30-(*)-HB60-24	35 11/16	20 5/8	23 13/16
24	36	AUF(†)-36-(*)-HB60-24	38 1/4	22 1/8	25 1/2
24	42	AUF(†)-42-(*)-HB60-24	40 7/8	23 5/8	27 1/4
36	6	AUF(†)-06-(*)-HB60-36	35 11/16	20 5/8	23 13/16
36	9	AUF(†)-09-(*)-HB60-36	37	21 3/8	24 5/8
36	12	AUF(†)-12-(*)-HB60-36	38 1/4	22 1/8	25 1/2
36	18	AUF(†)-18-(*)-HB60-36	40 7/8	23 5/8	27 5/8
36	24	AUF(†)-24-(*)-HB60-36	43 1/2	25 1/8	29
36	30	AUF(†)-30-(*)-HB60-36	46 1/16	26 5/8	30 11/16
36	36	AUF(†)-36-(*)-HB60-36	481 1/16	28-1/8	32 7/16
36	42	AUF(†)-42-(*)-HB60-36	51 1/4	29 5/8	34 3/16
48	6	AUF(†)-06-(*)-HB60-48	46 1/16	26 5/8	30 11/16
48	9	AUF(†)-09-(*)-HB60-48	47 3/8	27 3/8	31 9/16
48	12	AUF(†)-12-(*)-HB60-48	48 11/16	28 1/8	32 7/16
48	18	AUF(†)-18-(*)-HB60-48	51 1/16	29 5/8	34 3/16
48	24	AUF(†)-24-(*)-HB60-48	53 7/8	31 1/8	35 15/16
48	30	AUF(†)-30-(*)-HB60-48	56 7/16	32 5/8	37 5/8
48	36	AUF(†)-36-(*)-HB60-48	59 1/16	34 1/8	39 3/8
48	42	AUF(†)-42-(*)-HB60-48	61 11/16	35 5/8	41 1/8

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

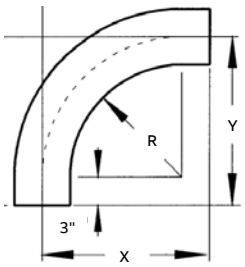
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 90°, 60°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

Aluminum fittings

90°/60° H-style horizontal bend fittings

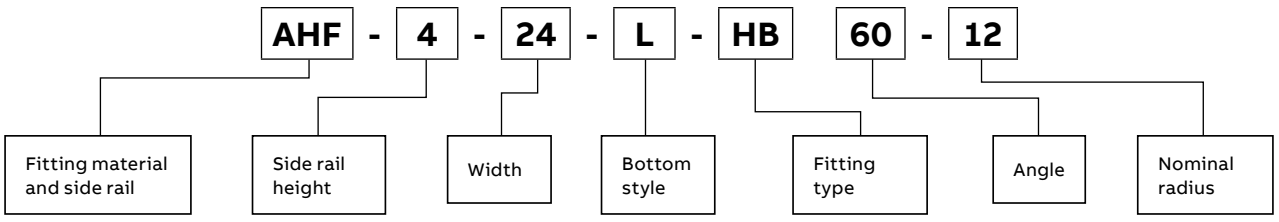
90° Horizontal bend – H-style



Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) X	Y
12	6	AHF(†)-06-(*)-HB90-12	18	18
12	9	AHF(†)-09-(*)-HB90-12	19½	19½
12	12	AHF(†)-12-(*)-HB90-12	21	21
12	18	AHF(†)-18-(*)-HB90-12	24	24
12	24	AHF(†)-24-(*)-HB90-12	27	27
12	30	AHF(†)-30-(*)-HB90-12	30	30
12	36	AHF(†)-36-(*)-HB90-12	33	33
12	42	AHF(†)-42-(*)-HB90-12	36	36
24	6	AHF(†)-06-(*)-HB90-24	30	30
24	9	AHF(†)-09-(*)-HB90-24	31½	31½
24	12	AHF(†)-12-(*)-HB90-24	33	33
24	18	AHF(†)-18-(*)-HB90-24	36	36
24	24	AHF(†)-24-(*)-HB90-24	39	39
24	30	AHF(†)-30-(*)-HB90-24	42	42
24	36	AHF(†)-36-(*)-HB90-24	45	45
24	42	AHF(†)-42-(*)-HB90-24	48	48
36	6	AHF(†)-06-(*)-HB90-36	42	42
36	9	AHF(†)-09-(*)-HB90-36	43½	43½
36	12	AHF(†)-12-(*)-HB90-36	45	45
36	18	AHF(†)-18-(*)-HB90-36	48	48
36	24	AHF(†)-24-(*)-HB90-36	51	51
36	30	AHF(†)-30-(*)-HB90-36	54	54
36	36	AHF(†)-36-(*)-HB90-36	57	57
36	42	AHF(†)-42-(*)-HB90-36	60	60
48	6	AHF(†)-06-(*)-HB90-48	54	54
48	9	AHF(†)-09-(*)-HB90-48	55½	55½
48	12	AHF(†)-12-(*)-HB90-48	57	57
48	18	AHF(†)-18-(*)-HB90-48	60	60
48	24	AHF(†)-24-(*)-HB90-48	63	63
48	30	AHF(†)-30-(*)-HB90-48	66	66
48	36	AHF(†)-36-(*)-HB90-48	69	69
48	42	AHF(†)-42-(*)-HB90-48	72	72

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



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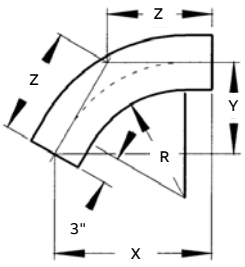
60° Horizontal bend – H-style



Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) X	Y	Z
12	6	AHF(†)-06-(*)-HB60-12	17½	10⅛	11 11/16
12	9	AHF(†)-09-(*)-HB60-12	18 13/16	10⅞	12½
12	12	AHF(†)-12-(*)-HB60-12	20 1/16	11⅝	13⅜
12	18	AHF(†)-18-(*)-HB60-12	22 11/16	13⅛	15⅛
12	24	AHF(†)-24-(*)-HB60-12	25 5/16	14⅝	16⅞
12	30	AHF(†)-30-(*)-HB60-12	27⅞	16⅛	18 9/16
12	36	AHF(†)-36-(*)-HB60-12	30½	17⅝	20 5/16
12	42	AHF(†)-42-(*)-HB60-12	33 1/16	19⅛	22 1/16
24	6	AHF(†)-06-(*)-HB60-24	27⅞	16⅛	18 9/16
24	9	AHF(†)-09-(*)-HB60-24	29 3/16	16⅞	19 7/16
24	12	AHF(†)-12-(*)-HB60-24	30½	17⅝	20 5/16
24	18	AHF(†)-18-(*)-HB60-24	33 1/16	19⅛	22 1/16
24	24	AHF(†)-24-(*)-HB60-24	35 11/16	20⅝	23 13/16
24	30	AHF(†)-30-(*)-HB60-24	38¼	22⅛	25½
24	36	AHF(†)-36-(*)-HB60-24	40⅞	23⅝	27¼
24	42	AHF(†)-42-(*)-HB60-24	43 7/16	25⅛	29 5/16
36	6	AHF(†)-06-(*)-HB60-36	38¼	22⅛	25½
36	9	AHF(†)-09-(*)-HB60-36	39 9/16	22⅞	26⅜
36	12	AHF(†)-12-(*)-HB60-36	40⅞	23⅝	27¼
36	18	AHF(†)-18-(*)-HB60-36	43½	25⅛	29
36	24	AHF(†)-24-(*)-HB60-36	46 1/16	26⅝	30 11/16
36	30	AHF(†)-30-(*)-HB60-36	48 11/16	28⅛	32 7/16
36	36	AHF(†)-36-(*)-HB60-36	51¼	29⅝	34 3/16
36	42	AHF(†)-42-(*)-HB60-36	53⅞	31⅛	35 15/16
48	6	AHF(†)-06-(*)-HB60-48	48 11/16	28⅛	32 7/16
48	9	AHF(†)-09-(*)-HB60-48	49 15/16	28⅞	33 5/16
48	12	AHF(†)-12-(*)-HB60-48	51¼	29⅝	34 3/16
48	18	AHF(†)-18-(*)-HB60-48	53⅞	31⅛	35 15/16
48	24	AHF(†)-24-(*)-HB60-48	56 7/16	32⅝	37⅝
48	30	AHF(†)-30-(*)-HB60-48	59 1/16	34⅛	39⅜
48	36	AHF(†)-36-(*)-HB60-48	61 11/16	35⅝	41⅛
48	42	AHF(†)-42-(*)-HB60-48	64¼	37⅛	42 13/16

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

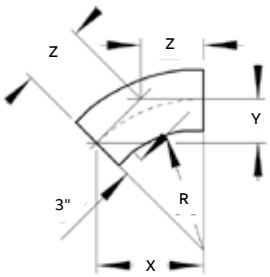
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 90°, 60°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4 –7 in.

Aluminum fittings

45°/30° U-style horizontal bend fittings

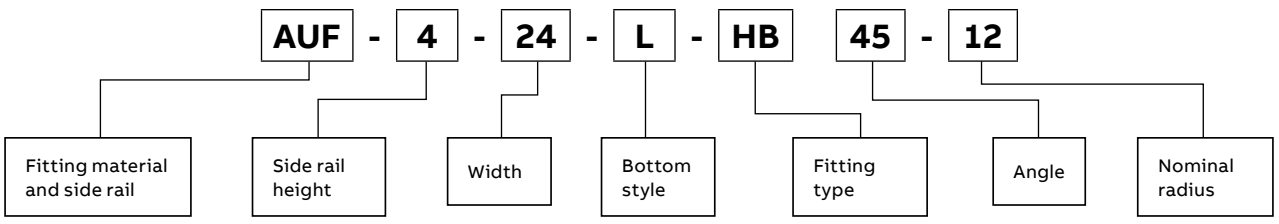
45° Horizontal bend – U-style



Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) X	Y	Z
12	6	AUF(†)-06-(*)-HB45-12	13 5/8	5 5/8	8
12	9	AUF(†)-09-(*)-HB45-12	14 11/16	6 1/16	8 9/16
12	12	AUF(†)-12-(*)-HB45-12	15 3/4	6 1/2	9 3/16
12	18	AUF(†)-18-(*)-HB45-12	17 7/8	7 3/8	10 7/16
12	24	AUF(†)-24-(*)-HB45-12	20	8 1/4	11 11/16
12	30	AUF(†)-30-(*)-HB45-12	22 1/16	9 1/8	12 15/16
12	36	AUF(†)-36-(*)-HB45-12	24 3/16	10	14 3/16
12	42	AUF(†)-42-(*)-HB45-12	26 5/16	10 15/16	15 7/16
24	6	AUF(†)-06-(*)-HB45-24	22 1/16	9 1/8	12 15/16
24	9	AUF(†)-09-(*)-HB45-24	23 1/8	9 9/16	13 9/16
24	12	AUF(†)-12-(*)-HB45-24	24 3/16	10	14 3/16
24	18	AUF(†)-18-(*)-HB45-24	26 5/16	10 15/16	15 7/16
24	24	AUF(†)-24-(*)-HB45-24	28 7/16	11 13/16	16 11/16
24	30	AUF(†)-30-(*)-HB45-24	30 9/16	12 11/16	17 15/16
24	36	AUF(†)-36-(*)-HB45-24	32 11/16	13 9/16	19 1/8
24	42	AUF(†)-42-(*)-HB45-24	34 13/16	14 7/8	20 3/8
36	6	AUF(†)-06-(*)-HB45-36	30 9/16	12 11/16	17 15/16
36	9	AUF(†)-09-(*)-HB45-36	31 5/8	13 1/8	18 9/16
36	12	AUF(†)-12-(*)-HB45-36	32 11/16	13 9/16	19 1/8
36	18	AUF(†)-18-(*)-HB45-36	34 13/16	14 7/16	20 3/8
36	24	AUF(†)-24-(*)-HB45-36	36 15/16	15 5/16	21 5/8
36	30	AUF(†)-30-(*)-HB45-36	39 1/16	16 3/16	22 7/8
36	36	AUF(†)-36-(*)-HB45-36	41 3/16	17 1/16	24 1/8
36	42	AUF(†)-42-(*)-HB45-36	43 5/16	17 15/16	25 3/8
48	6	AUF(†)-06-(*)-HB45-48	39 1/16	16 3/16	22 7/8
48	9	AUF(†)-09-(*)-HB45-48	40 1/8	16 3/8	23 1/2
48	12	AUF(†)-12-(*)-HB45-48	41 3/16	17 1/16	24 1/8
48	18	AUF(†)-18-(*)-HB45-48	43 5/16	17 15/16	25 3/8
48	24	AUF(†)-24-(*)-HB45-48	45 7/16	18 13/16	26 5/8
48	30	AUF(†)-30-(*)-HB45-48	47 9/16	19 11/16	27 7/8
48	36	AUF(†)-36-(*)-HB45-48	49 11/16	20 9/16	29 1/8
48	42	AUF(†)-42-(*)-HB45-48	51 13/16	21 7/16	30 5/16

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



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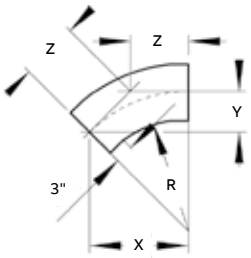
30° Horizontal bend – U-style



Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) X	Y	Z
12	6	AUF(†)-06-(*)-HB30-12	11 5/8	3 1/8	6 3/16
12	9	AUF(†)-09-(*)-HB30-12	12 3/8	3 5/16	6 5/8
12	12	AUF(†)-12-(*)-HB30-12	13 1/2	3 1/2	7
12	18	AUF(†)-18-(*)-HB30-12	14 5/8	3 15/16	7 13/16
12	24	AUF(†)-24-(*)-HB30-12	16 1/8	4 5/16	8 5/8
12	30	AUF(†)-30-(*)-HB30-12	17 5/8	4 11/16	9 7/16
12	36	AUF(†)-36-(*)-HB30-12	19 1/8	5 1/8	10 1/4
12	42	AUF(†)-42-(*)-HB30-12	20 5/8	5 1/2	11 1/16
24	6	AUF(†)-06-(*)-HB30-24	17 5/8	4 11/16	9 7/16
24	9	AUF(†)-09-(*)-HB30-24	18 3/8	4 15/16	9 13/16
24	12	AUF(†)-12-(*)-HB30-24	19 1/8	5 3/16	10 4/16
24	18	AUF(†)-18-(*)-HB30-24	20 5/8	5 8/16	11 1/16
24	24	AUF(†)-24-(*)-HB30-24	22 1/8	5 15/16	11 13/16
24	30	AUF(†)-30-(*)-HB30-24	23 5/8	6 5/16	12 10/16
24	36	AUF(†)-36-(*)-HB30-24	25 1/8	6 12/16	13 7/16
24	42	AUF(†)-42-(*)-HB30-24	26 5/8	7 1/8	14 1/4
36	6	AUF(†)-06-(*)-HB30-36	23 5/8	6 5/16	12 5/8
36	9	AUF(†)-09-(*)-HB30-36	24 3/8	6 1/2	13 1/16
36	12	AUF(†)-12-(*)-HB30-36	25 1/8	6 3/4	13 7/16
36	18	AUF(†)-18-(*)-HB30-36	26 5/8	7 1/4	14 1/4
36	24	AUF(†)-24-(*)-HB30-36	28 1/8	7 1/2	15 1/16
36	30	AUF(†)-30-(*)-HB30-36	29 5/8	7 15/16	15 7/8
36	36	AUF(†)-36-(*)-HB30-36	31 1/8	8 5/16	16 11/16
36	42	AUF(†)-42-(*)-HB30-36	32 5/8	8 3/4	17 1/2
48	6	AUF(†)-06-(*)-HB30-48	29 5/8	7 15/16	15 7/8
48	9	AUF(†)-09-(*)-HB30-48	30 3/8	8 1/8	16 1/4
48	12	AUF(†)-12-(*)-HB30-48	31 1/8	8 5/16	16 11/16
48	18	AUF(†)-18-(*)-HB30-48	32 5/8	8 3/4	17 1/2
48	24	AUF(†)-24-(*)-HB30-48	34 1/8	9 1/8	18 1/4
48	30	AUF(†)-30-(*)-HB30-48	35 5/8	9 9/16	19 1/16
48	36	AUF(†)-36-(*)-HB30-48	37 1/8	9 15/16	19 7/8
48	42	AUF(†)-42-(*)-HB30-48	38 5/8	10 5/16	20 11/16

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

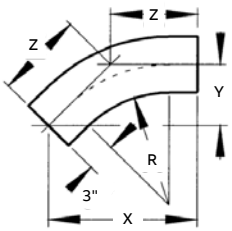
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 45°, 30°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4– 7 in.

Aluminum fittings

45°/30° H-style horizontal bend fittings

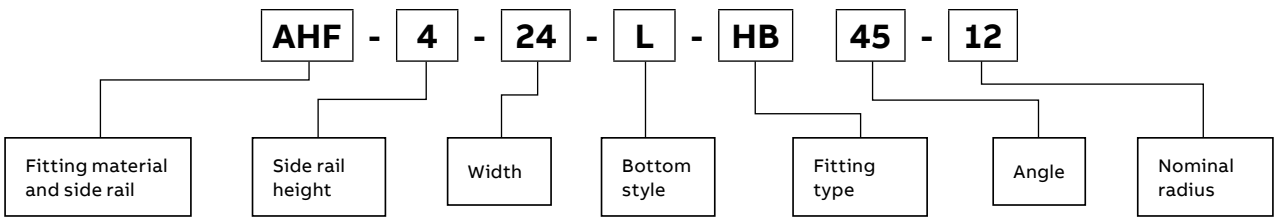
45° Horizontal bend – H-style



Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) X	Y	Z
12	6	AHF(†)-06-(*)-HB45-12	15¾	6½	9³⁄₁₆
12	9	AHF(†)-09-(*)-HB45-12	16¹³⁄₁₆	6¹⁵⁄₁₆	9¹³⁄₁₆
12	12	AHF(†)-12-(*)-HB45-12	17⅞	7⅜	10⁷⁄₁₆
12	18	AHF(†)-18-(*)-HB45-12	20	8¼	11¹¹⁄₁₆
12	24	AHF(†)-24-(*)-HB45-12	22¹⁄₁₆	9⅛	12¹⁵⁄₁₆
12	30	AHF(†)-30-(*)-HB45-12	24³⁄₁₆	10	14³⁄₁₆
12	36	AHF(†)-36-(*)-HB45-12	26⁵⁄₁₆	10¹⁵⁄₁₆	15⁷⁄₁₆
12	42	AHF(†)-42-(*)-HB45-12	28⁷⁄₁₆	11⅞	16¹¹⁄₁₆
24	6	AHF(†)-06-(*)-HB45-24	24³⁄₁₆	10	14³⁄₁₆
24	9	AHF(†)-09-(*)-HB45-24	25¼	10½	14¹³⁄₁₆
24	12	AHF(†)-12-(*)-HB45-24	26⁵⁄₁₆	10¹⁵⁄₁₆	15⁷⁄₁₆
24	18	AHF(†)-18-(*)-HB45-24	28⁷⁄₁₆	11¹³⁄₁₆	16¹¹⁄₁₆
24	24	AHF(†)-24-(*)-HB45-24	30⁹⁄₁₆	12¹¹⁄₁₆	17¹⁵⁄₁₆
24	30	AHF(†)-30-(*)-HB45-24	32¹¹⁄₁₆	13⁹⁄₁₆	19⅛
24	36	AHF(†)-36-(*)-HB45-24	34¹³⁄₁₆	14⅞	20⅜
24	42	AHF(†)-42-(*)-HB45-24	36¹⁵⁄₁₆	15¾	21⅝
36	6	AHF(†)-06-(*)-HB45-36	32¹¹⁄₁₆	13⁹⁄₁₆	19⅛
36	9	AHF(†)-09-(*)-HB45-36	33¾	14	19¾
36	12	AHF(†)-12-(*)-HB45-36	34¹³⁄₁₆	14⁷⁄₁₆	20⅜
36	18	AHF(†)-18-(*)-HB45-36	36¹⁵⁄₁₆	15⁵⁄₁₆	21⅝
36	24	AHF(†)-24-(*)-HB45-36	39¹⁄₁₆	16³⁄₁₆	22⅞
36	30	AHF(†)-30-(*)-HB45-36	41³⁄₁₆	17¹⁄₁₆	24⅛
36	36	AHF(†)-36-(*)-HB45-36	43⁵⁄₁₆	17¹⁵⁄₁₆	25⅜
36	42	AHF(†)-42-(*)-HB45-36	45⁷⁄₁₆	18¹³⁄₁₆	26⅝
48	6	AHF(†)-06-(*)-HB45-48	41³⁄₁₆	17¹⁄₁₆	24⅛
48	9	AHF(†)-09-(*)-HB45-48	42¼	17½	24¾
48	12	AHF(†)-12-(*)-HB45-48	43⁵⁄₁₆	17¹⁵⁄₁₆	25⅜
48	18	AHF(†)-18-(*)-HB45-48	45⁷⁄₁₆	18¹³⁄₁₆	26⅝
48	24	AHF(†)-24-(*)-HB45-48	47⁹⁄₁₆	19¹¹⁄₁₆	27¾
48	30	AHF(†)-30-(*)-HB45-48	49¹¹⁄₁₆	20⁹⁄₁₆	29⅛
48	36	AHF(†)-36-(*)-HB45-48	51¹³⁄₁₆	21⁷⁄₁₆	30⁵⁄₁₆
48	42	AHF(†)-42-(*)-HB45-48	53¹⁵⁄₁₆	22⁵⁄₁₆	31⁹⁄₁₆

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



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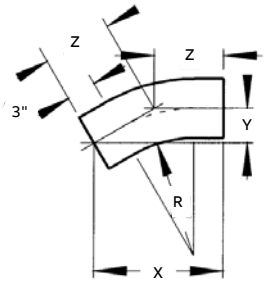
30° Horizontal bend – H-style



Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) X	Y	Z
12	6	AHF(†)-06-(*)-HB30-12	13 1/8	3 1/2	7
12	9	AHF(†)-09-(*)-HB30-12	13 7/8	3 11/16	7 7/16
12	12	AHF(†)-12-(*)-HB30-12	14 5/8	3 15/16	7 13/16
12	18	AHF(†)-18-(*)-HB30-12	16 1/8	4 5/16	8 5/8
12	24	AHF(†)-24-(*)-HB30-12	17 5/8	4 11/16	9 7/8
12	30	AHF(†)-30-(*)-HB30-12	19 1/8	5 1/8	10 1/4
12	36	AHF(†)-36-(*)-HB30-12	20 5/8	5 1/2	11 1/16
12	42	AHF(†)-42-(*)-HB30-12	22 1/8	5 7/8	12 5/16
24	6	AHF(†)-06-(*)-HB30-24	19 1/8	5 1/8	10 1/4
24	9	AHF(†)-09-(*)-HB30-24	19 7/8	5 5/16	10 5/8
24	12	AHF(†)-12-(*)-HB30-24	20 5/8	5 1/2	11 1/16
24	18	AHF(†)-18-(*)-HB30-24	22 1/8	5 5/16	11 13/16
24	24	AHF(†)-24-(*)-HB30-24	23 5/8	6 5/16	12 5/8
24	30	AHF(†)-30-(*)-HB30-24	25 1/8	6 3/4	13 7/16
24	36	AHF(†)-36-(*)-HB30-24	26 5/8	7 1/8	14 1/4
24	42	AHF(†)-42-(*)-HB30-24	28 1/8	7 1/2	15 1/16
36	6	AHF(†)-06-(*)-HB30-36	25 1/8	6 3/4	13 7/16
36	9	AHF(†)-09-(*)-HB30-36	25 7/8	6 15/16	13 7/8
36	12	AHF(†)-12-(*)-HB30-36	26 5/8	7 1/8	14 1/4
36	18	AHF(†)-18-(*)-HB30-36	28 1/8	7 1/2	15 1/16
36	24	AHF(†)-24-(*)-HB30-36	29 5/8	7 15/16	15 7/8
36	30	AHF(†)-30-(*)-HB30-36	31 1/8	8 5/16	16 11/16
36	36	AHF(†)-36-(*)-HB30-36	32 5/8	8 3/4	17 1/2
36	42	AHF(†)-42-(*)-HB30-36	34 1/8	9 1/8	18 5/16
48	6	AHF(†)-06-(*)-HB30-48	31 1/8	8 5/16	16 11/16
48	9	AHF(†)-09-(*)-HB30-48	31 7/8	8 9/16	17 1/16
48	12	AHF(†)-12-(*)-HB30-48	32 5/8	8 3/4	17 1/2
48	18	AHF(†)-18-(*)-HB30-48	34 1/8	9 1/8	18 1/4
48	24	AHF(†)-24-(*)-HB30-48	35 5/8	9 9/16	19 1/16
48	30	AHF(†)-30-(*)-HB30-48	37 1/8	9 15/16	19 7/8
48	36	AHF(†)-36-(*)-HB30-48	38 5/8	10 5/16	20 11/16
48	42	AHF(†)-42-(*)-HB30-48	40 1/8	10 11/16	21 1/2

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

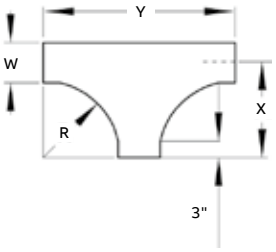
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 45°, 30°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

Aluminum fittings

U-style horizontal tee and cross fittings

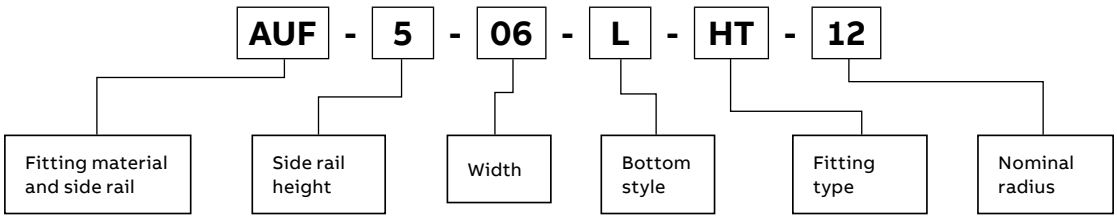
Horizontal tee – U-style



Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) X	Y
12	6	AUF(†)-06-(*)-HT12	15	30
12	9	AUF(†)-09-(*)-HT12	16½	33
12	12	AUF(†)-12-(*)-HT12	18	36
12	18	AUF(†)-18-(*)-HT12	21	42
12	24	AUF(†)-24-(*)-HT12	24	48
12	30	AUF(†)-30-(*)-HT12	27	54
12	36	AUF(†)-36-(*)-HT12	30	60
12	42	AUF(†)-42-(*)-HT12	33	66
24	6	AUF(†)-06-(*)-HT24	27	54
24	9	AUF(†)-09-(*)-HT24	28½	57
24	12	AUF(†)-12-(*)-HT24	30	60
24	18	AUF(†)-18-(*)-HT24	33	66
24	24	AUF(†)-24-(*)-HT24	36	72
24	30	AUF(†)-30-(*)-HT24	39	78
24	36	AUF(†)-36-(*)-HT24	42	84
24	42	AUF(†)-42-(*)-HT24	45	90
36	6	AUF(†)-06-(*)-HT36	39	78
36	9	AUF(†)-09-(*)-HT36	40½	81
36	12	AUF(†)-12-(*)-HT36	42	84
36	18	AUF(†)-18-(*)-HT36	45	90
36	24	AUF(†)-24-(*)-HT36	48	96
36	30	AUF(†)-30-(*)-HT36	51	102
36	36	AUF(†)-36-(*)-HT36	54	108
36	42	AUF(†)-42-(*)-HT36	57	114
48	6	AUF(†)-06-(*)-HT48	51	102
48	9	AUF(†)-09-(*)-HT48	52½	105
48	12	AUF(†)-12-(*)-HT48	54	108
48	18	AUF(†)-18-(*)-HT48	57	114
48	24	AUF(†)-24-(*)-HT48	60	120
48	30	AUF(†)-30-(*)-HT48	63	126
48	36	AUF(†)-36-(*)-HT48	66	132
48	42	AUF(†)-42-(*)-HT48	69	138

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Tees include 2 pairs/crosses include 3 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



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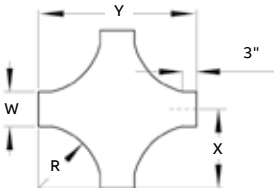
Horizontal cross – U-style



Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) X	Y
12	6	AUF(†)-06-(*)-HX12	15	30
12	9	AUF(†)-09-(*)-HX12	16½	33
12	12	AUF(†)-12-(*)-HX12	18	36
12	18	AUF(†)-18-(*)-HX12	21	42
12	24	AUF(†)-24-(*)-HX12	24	48
12	30	AUF(†)-30-(*)-HX12	27	54
12	36	AUF(†)-36-(*)-HX12	30	60
12	42	AUF(†)-42-(*)-HX12	33	66
24	6	AUF(†)-06-(*)-HX24	27	54
24	9	AUF(†)-09-(*)-HX24	28½	57
24	12	AUF(†)-12-(*)-HX24	30	60
24	18	AUF(†)-18-(*)-HX24	33	66
24	24	AUF(†)-24-(*)-HX24	36	72
24	30	AUF(†)-30-(*)-HX24	39	78
24	36	AUF(†)-36-(*)-HX24	42	84
24	42	AUF(†)-42-(*)-HX24	45	90
36	6	AUF(†)-06-(*)-HX36	39	78
36	9	AUF(†)-09-(*)-HX36	40½	81
36	12	AUF(†)-12-(*)-HX36	42	84
36	18	AUF(†)-18-(*)-HX36	45	90
36	24	AUF(†)-24-(*)-HX36	48	96
36	30	AUF(†)-30-(*)-HX36	51	102
36	36	AUF(†)-36-(*)-HX36	54	108
36	42	AUF(†)-42-(*)-HX36	57	114
48	6	AUF(†)-06-(*)-HX48	51	102
48	9	AUF(†)-09-(*)-HX48	52½	105
48	12	AUF(†)-12-(*)-HX48	54	108
48	18	AUF(†)-18-(*)-HX48	57	114
48	24	AUF(†)-24-(*)-HX48	60	120
48	30	AUF(†)-30-(*)-HX48	63	126
48	36	AUF(†)-36-(*)-HX48	66	132
48	42	AUF(†)-42-(*)-HX48	69	138

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Tees include 2 pairs/crosses include 3 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

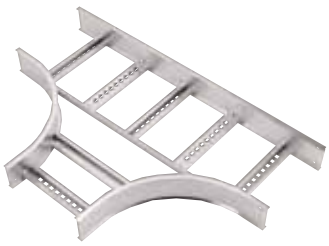
Selection guide

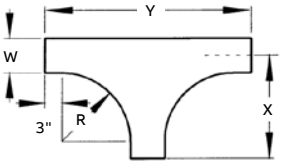
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

Aluminum fittings

H-style horizontal tee and cross fittings

Horizontal tee – H-style

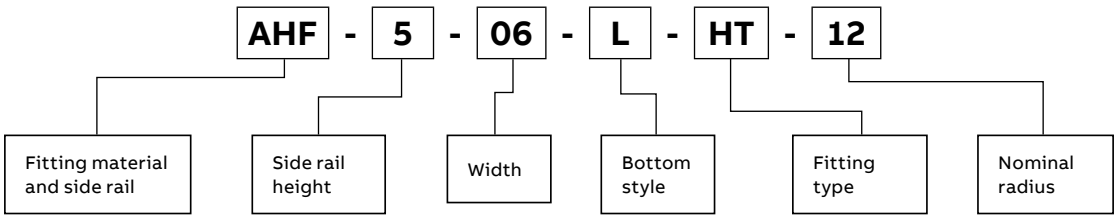




Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) X	Y
12	6	AHF(†)-06-(*)-HT12	18	36
12	9	AHF(†)-09-(*)-HT12	19½	39
12	12	AHF(†)-12-(*)-HT12	21	42
12	18	AHF(†)-18-(*)-HT12	24	48
12	24	AHF(†)-24-(*)-HT12	27	54
12	30	AHF(†)-30-(*)-HT12	30	60
12	36	AHF(†)-36-(*)-HT12	33	66
12	42	AHF(†)-42-(*)-HT12	36	72
24	6	AHF(†)-06-(*)-HT24	30	60
24	9	AHF(†)-09-(*)-HT24	31½	63
24	12	AHF(†)-12-(*)-HT24	33	66
24	18	AHF(†)-18-(*)-HT24	36	72
24	24	AHF(†)-24-(*)-HT24	39	78
24	30	AHF(†)-30-(*)-HT24	42	84
24	36	AHF(†)-36-(*)-HT24	45	90
24	42	AHF(†)-42-(*)-HT24	48	96
36	6	AHF(†)-06-(*)-HT36	42	84
36	9	AHF(†)-09-(*)-HT36	43½	87
36	12	AHF(†)-12-(*)-HT36	45	90
36	18	AHF(†)-18-(*)-HT36	48	96
36	24	AHF(†)-24-(*)-HT36	51	102
36	30	AHF(†)-30-(*)-HT36	54	108
36	36	AHF(†)-36-(*)-HT36	57	114
36	42	AHF(†)-42-(*)-HT36	60	120
48	6	AHF(†)-06-(*)-HT48	54	108
48	9	AHF(†)-09-(*)-HT48	55½	111
48	12	AHF(†)-12-(*)-HT48	57	114
48	18	AHF(†)-18-(*)-HT48	60	120
48	24	AHF(†)-24-(*)-HT48	63	126
48	30	AHF(†)-30-(*)-HT48	66	132
48	36	AHF(†)-36-(*)-HT48	69	138
48	42	AHF(†)-42-(*)-HT48	72	144

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Tees include 2 pairs/crosses include 3 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



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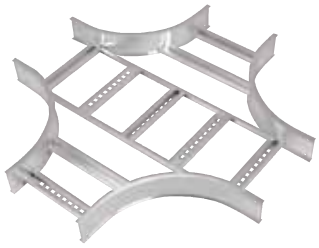
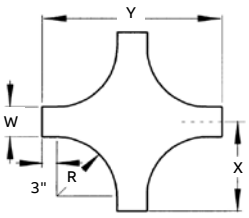
Horizontal cross – H-style





Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) X	Y
12	6	AHF(†)-06-(*)-HX12	18	36
12	9	AHF(†)-09-(*)-HX12	19½	39
12	12	AHF(†)-12-(*)-HX12	21	42
12	18	AHF(†)-18-(*)-HX12	24	48
12	24	AHF(†)-24-(*)-HX12	27	54
12	30	AHF(†)-30-(*)-HX12	30	60
12	36	AHF(†)-36-(*)-HX12	33	66
12	42	AHF(†)-42-(*)-HX12	36	72
24	6	AHF(†)-06-(*)-HX24	30	60
24	9	AHF(†)-09-(*)-HX24	31½	63
24	12	AHF(†)-12-(*)-HX24	33	66
24	18	AHF(†)-18-(*)-HX24	36	72
24	24	AHF(†)-24-(*)-HX24	39	78
24	30	AHF(†)-30-(*)-HX24	42	84
24	36	AHF(†)-36-(*)-HX24	45	90
24	42	AHF(†)-42-(*)-HX24	48	96
36	6	AHF(†)-06-(*)-HX36	42	84
36	9	AHF(†)-09-(*)-HX36	43½	87
36	12	AHF(†)-12-(*)-HX36	45	90
36	18	AHF(†)-18-(*)-HX36	48	96
36	24	AHF(†)-24-(*)-HX36	51	102
36	30	AHF(†)-30-(*)-HX36	54	108
36	36	AHF(†)-36-(*)-HX36	57	114
36	42	AHF(†)-42-(*)-HX36	60	120
48	6	AHF(†)-06-(*)-HX48	54	108
48	9	AHF(†)-09-(*)-HX48	55½	111
48	12	AHF(†)-12-(*)-HX48	57	114
48	18	AHF(†)-18-(*)-HX48	60	120
48	24	AHF(†)-24-(*)-HX48	63	126
48	30	AHF(†)-30-(*)-HX48	66	132
48	36	AHF(†)-36-(*)-HX48	69	138
48	42	AHF(†)-42-(*)-HX48	72	144

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Tees include 2 pairs/crosses include 3 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

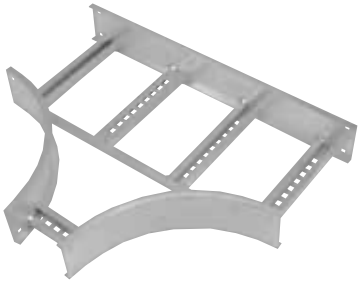
Aluminum fittings

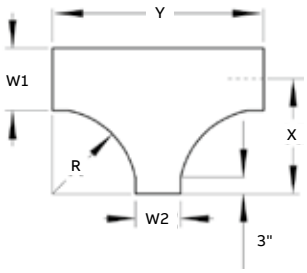
U-style horizontal reducing tee fittings

Selection guide

- Tray widths W1: 42, 36, 30, 24, 18, 12, 9 in.
- Tray widths W2: 36, 30, 24, 18, 12, 9, 6 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

Horizontal reducing tee – U-style

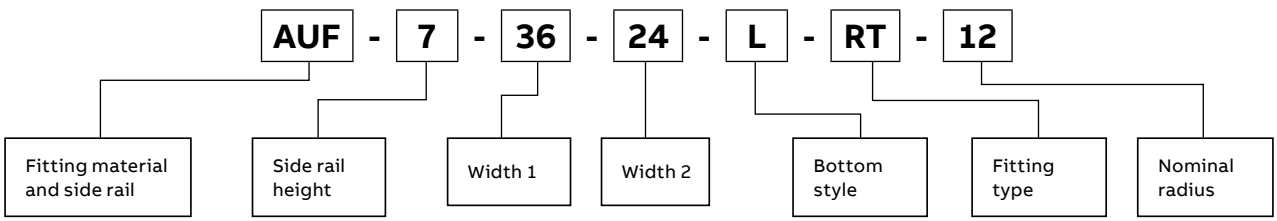




			Dimensions (in.)							
			(+) 12 in. Nominal radius		(+) 24 in. Nominal radius		(+) 36 in. Nominal radius		(+) 48 in. Nominal radius	
Widths (in.)										
W1	W2	Cat. no.	X	Y	X	Y	X	Y	X	Y
42	36	AUF(†)-4236-(*)-RT(+)	33	60	45	84	57	108	69	132
42	30	AUF(†)-4230-(*)-RT(+)	33	54	45	78	57	102	69	126
42	24	AUF(†)-4224-(*)-RT(+)	33	48	45	72	57	96	69	120
42	18	AUF(†)-4218-(*)-RT(+)	33	42	45	66	57	90	69	114
42	12	AUF(†)-4212-(*)-RT(+)	33	36	45	60	57	84	69	108
42	9	AUF(†)-4209-(*)-RT(+)	33	33	45	57	57	81	69	105
42	6	AUF(†)-4206-(*)-RT(+)	33	30	45	54	57	78	69	102
36	30	AUF(†)-3630-(*)-RT(+)	30	54	42	78	54	102	66	126
36	24	AUF(†)-3624-(*)-RT(+)	30	48	42	72	54	96	66	120
36	18	AUF(†)-3618-(*)-RT(+)	30	42	42	66	54	90	66	114
36	12	AUF(†)-3612-(*)-RT(+)	30	36	42	60	54	84	66	108
36	9	AUF(†)-3609-(*)-RT(+)	30	33	42	57	54	81	66	105
36	6	AUF(†)-3606-(*)-RT(+)	30	30	42	54	54	78	66	102
30	24	AUF(†)-3024-(*)-RT(+)	27	48	39	72	51	96	63	120
30	18	AUF(†)-3018-(*)-RT(+)	27	42	39	66	51	90	63	114
30	12	AUF(†)-3012-(*)-RT(+)	27	36	39	60	51	84	63	108
30	9	AUF(†)-3009-(*)-RT(+)	27	33	39	57	51	81	63	105
30	6	AUF(†)-3006-(*)-RT(+)	27	30	39	54	51	78	63	102
24	18	AUF(†)-2418-(*)-RT(+)	24	42	36	66	48	90	60	114
24	12	AUF(†)-2412-(*)-RT(+)	24	36	36	60	48	84	60	108
24	9	AUF(†)-2409-(*)-RT(+)	24	33	36	57	48	81	60	105
24	6	AUF(†)-2406-(*)-RT(+)	24	30	36	54	48	78	60	102
18	12	AUF(†)-1812-(*)-RT(+)	21	36	33	60	45	84	57	108
18	9	AUF(†)-1809-(*)-RT(+)	21	33	33	57	45	81	57	105
18	6	AUF(†)-1806-(*)-RT(+)	21	30	33	54	45	78	57	102
12	9	AUF(†)-1209-(*)-RT(+)	18	33	30	57	42	81	54	105
12	6	AUF(†)-1206-(*)-RT(+)	18	30	30	54	42	78	54	102
9	6	AUF(†)-0906-(*)-RT(+)	16½	30	28½	54	40½	78	52½	102

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. (+) Insert radius (12 in. – 48 in.). Includes 2 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



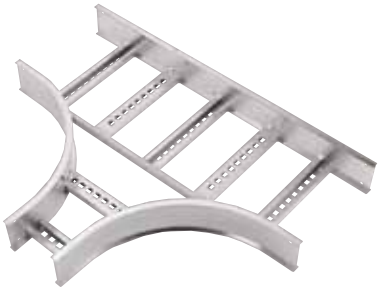
Aluminum fittings

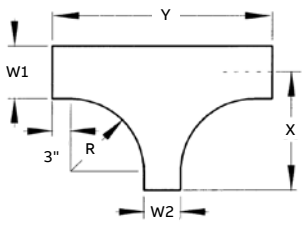
H-style horizontal reducing tee fittings

Selection guide

- Tray widths W1: 42, 36, 30, 24, 18, 12, 9 in.
- Tray widths W2: 36, 30, 24, 18, 12, 9, 6 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

Horizontal reducing tee – H-style

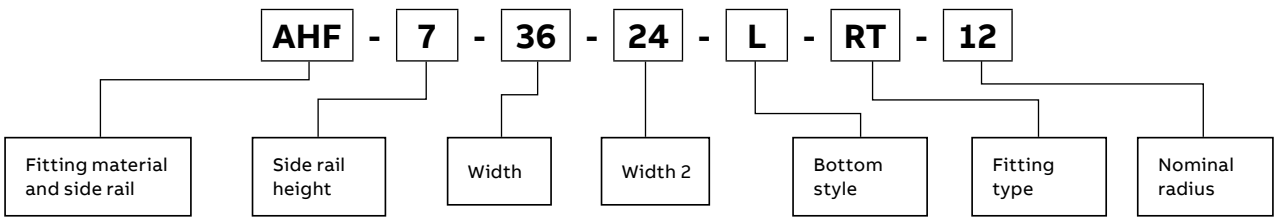




				Dimensions (in.)							
	Widths (in.)			(+) 12 in. Nominal radius		(+) 24 in. Nominal radius		(+) 36 in. Nominal radius		(+) 48 in. Nominal radius	
	W1	W2	Cat. no.	X	Y	X	Y	X	Y	X	Y
	42	36	AHF(†)-4236-(*)-RT(+)	36	66	48	90	60	114	72	138
	42	30	AHF(†)-4230-(*)-RT(+)	36	60	48	84	60	108	72	132
	42	24	AHF(†)-4224-(*)-RT(+)	36	54	48	78	60	102	72	126
	42	18	AHF(†)-4218-(*)-RT(+)	36	48	48	72	60	96	72	120
	42	12	AHF(†)-4212-(*)-RT(+)	36	42	48	66	60	90	72	114
	42	9	AHF(†)-4209-(*)-RT(+)	36	39	48	63	60	87	72	111
	42	6	AHF(†)-4206-(*)-RT(+)	36	36	48	60	60	84	72	108
	36	30	AHF(†)-3630-(*)-RT(+)	33	60	45	84	57	108	69	132
	36	24	AHF(†)-3624-(*)-RT(+)	33	54	45	78	57	102	69	126
	36	18	AHF(†)-3618-(*)-RT(+)	33	48	45	72	57	96	69	120
	36	12	AHF(†)-3612-(*)-RT(+)	33	42	45	66	57	90	69	114
	36	9	AHF(†)-3609-(*)-RT(+)	33	39	45	63	57	87	69	111
	36	6	AHF(†)-3606-(*)-RT(+)	33	36	45	60	57	84	69	108
	30	24	AHF(†)-3024-(*)-RT(+)	30	54	42	78	54	102	66	126
	30	18	AHF(†)-3018-(*)-RT(+)	30	48	42	72	54	96	66	120
	30	12	AHF(†)-3012-(*)-RT(+)	30	42	42	66	54	90	66	114
	30	9	AHF(†)-3009-(*)-RT(+)	30	39	42	63	54	87	66	111
	30	6	AHF(†)-3006-(*)-RT(+)	30	36	42	60	54	84	66	108
	24	18	AHF(†)-2418-(*)-RT(+)	27	48	39	72	51	96	63	120
	24	12	AHF(†)-2412-(*)-RT(+)	27	42	39	66	51	90	63	114
	24	9	AHF(†)-2409-(*)-RT(+)	27	39	39	63	51	87	63	111
	24	6	AHF(†)-2406-(*)-RT(+)	27	36	39	60	51	84	63	108
	18	12	AHF(†)-1812-(*)-RT(+)	24	42	36	66	48	90	60	114
	18	9	AHF(†)-1809-(*)-RT(+)	24	39	36	63	48	87	60	111
	18	6	AHF(†)-1806-(*)-RT(+)	24	36	36	60	48	84	60	108
	12	9	AHF(†)-1209-(*)-RT(+)	21	39	33	63	45	87	57	111
	12	6	AHF(†)-1206-(*)-RT(+)	21	36	33	60	45	84	57	108
	9	6	AHF(†)-0906-(*)-RT(+)	19½	36	31½	60	43½	84	55½	108

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. (+) Insert radius (12 in. – 48 in.). Includes 2 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



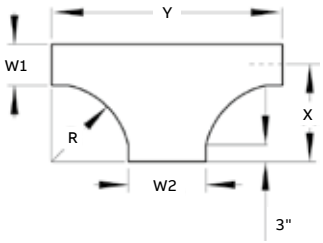
Aluminum fittings

U-style horizontal expanding tee fittings

Selection guide

- Tray widths W1: 36, 30, 24, 18, 12, 9, 6 in.
- Tray widths W2: 42, 36, 30, 24, 18, 12, 9 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

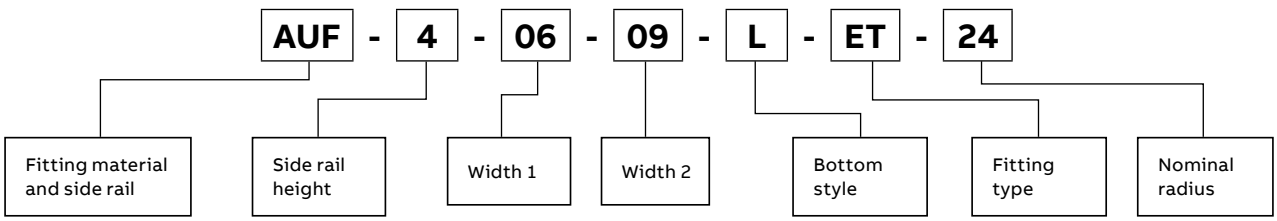
Horizontal expanding tee – U-style



			Dimensions (in.)							
			(+) 12 in. Nominal radius		(+) 24 in. Nominal radius		(+) 36 in. Nominal radius		(+) 48 in. Nominal radius	
Widths (in.)										
W1	W2	Cat. no.	X	Y	X	Y	X	Y	X	Y
36	42	AUF(†)-3642-(*)-ET(+)	30	66	42	90	54	114	66	138
30	36	AUF(†)-3036-(*)-ET(+)	27	60	39	84	51	108	63	132
30	42	AUF(†)-3042-(*)-ET(+)	27	66	39	90	51	114	63	138
24	30	AUF(†)-2430-(*)-ET(+)	24	54	36	78	48	102	60	126
24	36	AUF(†)-2436-(*)-ET(+)	24	60	36	84	48	108	60	132
24	42	AUF(†)-2442-(*)-ET(+)	24	66	36	90	48	114	60	138
18	24	AUF(†)-1824-(*)-ET(+)	21	48	33	72	45	96	57	120
18	30	AUF(†)-1830-(*)-ET(+)	21	54	33	78	45	102	57	126
18	36	AUF(†)-1836-(*)-ET(+)	21	60	33	84	45	108	57	132
18	42	AUF(†)-1842-(*)-ET(+)	21	66	33	90	45	114	57	138
12	18	AUF(†)-1218-(*)-ET(+)	18	42	30	66	42	90	54	114
12	24	AUF(†)-1224-(*)-ET(+)	18	48	30	72	42	96	54	120
12	30	AUF(†)-1230-(*)-ET(+)	18	54	30	78	42	102	54	126
12	36	AUF(†)-1236-(*)-ET(+)	18	60	30	84	42	108	54	132
12	42	AUF(†)-1242-(*)-ET(+)	18	66	30	90	42	114	54	138
9	12	AUF(†)-0912-(*)-ET(+)	16½	36	28½	60	40½	84	52½	108
9	18	AUF(†)-0918-(*)-ET(+)	16½	42	28½	66	40½	90	52½	114
9	24	AUF(†)-0924-(*)-ET(+)	16½	48	28½	72	40½	96	52½	120
9	30	AUF(†)-0930-(*)-ET(+)	16½	54	28½	78	40½	102	52½	126
9	36	AUF(†)-0936-(*)-ET(+)	16½	60	28½	84	40½	108	52½	132
9	42	AUF(†)-0942-(*)-ET(+)	16½	66	28½	90	40½	114	52½	138
6	9	AUF(†)-0609-(*)-ET(+)	15	33	27	57	39	81	51	105
6	12	AUF(†)-0612-(*)-ET(+)	15	36	27	60	39	84	51	108
6	18	AUF(†)-0618-(*)-ET(+)	15	42	27	66	39	90	51	114
6	24	AUF(†)-0624-(*)-ET(+)	15	48	27	72	39	96	51	120
6	30	AUF(†)-0630-(*)-ET(+)	15	54	27	78	39	102	51	126
6	36	AUF(†)-0636-(*)-ET(+)	15	60	27	84	39	108	51	132
6	42	AUF(†)-0642-(*)-ET(+)	15	66	27	90	39	114	51	138

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. (+) Insert radius (12 in. – 48 in.). Includes 2 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



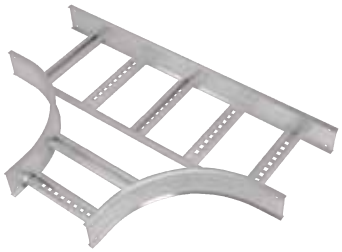
Aluminum fittings

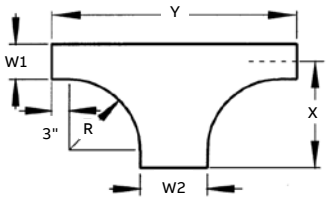
H-style horizontal expanding tee fittings

Selection guide

- Tray widths W1: 36, 30, 24, 18, 12, 9, 6 in.
- Tray widths W2: 42, 36, 30, 24, 18, 12, 9 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

Horizontal expanding tee – H-style

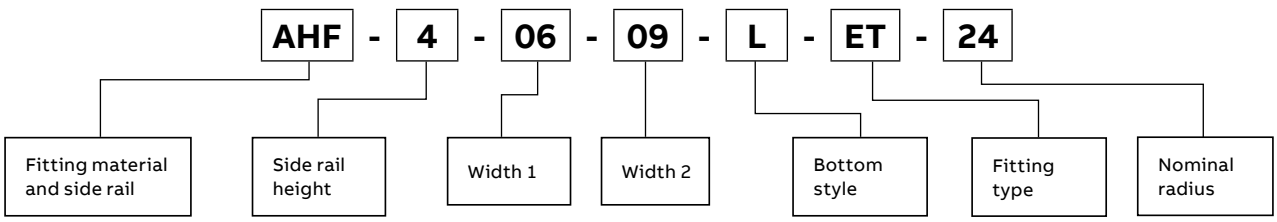




				Dimensions (in.)							
				(+) 12 in. Nominal radius		(+) 24 in. Nominal radius		(+) 36 in. Nominal radius		(+) 48 in. Nominal radius	
Widths (in.)											
W1	W2	Cat. no.		X	Y	X	Y	X	Y	X	Y
36	42	AHF(†)-3642-(*)-ET(+)		33	72	45	96	57	120	69	144
30	36	AHF(†)-3036-(*)-ET(+)		30	66	42	90	54	114	66	138
30	42	AHF(†)-3042-(*)-ET(+)		30	72	42	96	54	120	66	144
24	30	AHF(†)-2430-(*)-ET(+)		27	60	39	84	51	108	63	132
24	36	AHF(†)-2436-(*)-ET(+)		27	66	39	90	51	114	63	138
24	42	AHF(†)-2442-(*)-ET(+)		27	72	39	96	51	120	63	144
18	24	AHF(†)-1824-(*)-ET(+)		24	54	36	78	48	102	60	126
18	30	AHF(†)-1830-(*)-ET(+)		24	60	36	84	48	108	60	132
18	36	AHF(†)-1836-(*)-ET(+)		24	66	36	90	48	114	60	138
18	42	AHF(†)-1842-(*)-ET(+)		24	72	36	96	48	120	60	144
12	18	AHF(†)-1218-(*)-ET(+)		21	48	33	72	45	96	57	120
12	24	AHF(†)-1224-(*)-ET(+)		21	54	33	78	45	102	57	126
12	30	AHF(†)-1230-(*)-ET(+)		21	60	33	84	45	108	57	132
12	36	AHF(†)-1236-(*)-ET(+)		21	66	33	90	45	114	57	138
12	42	AHF(†)-1242-(*)-ET(+)		21	72	33	96	45	120	57	144
9	12	AHF(†)-0912-(*)-ET(+)		19½	42	31½	66	43½	90	55½	114
9	18	AHF(†)-0918-(*)-ET(+)		19½	48	31½	72	43½	96	55½	120
9	24	AHF(†)-0924-(*)-ET(+)		19½	54	31½	78	43½	102	55½	126
9	30	AHF(†)-0930-(*)-ET(+)		19½	60	31½	84	43½	108	55½	132
9	36	AHF(†)-0936-(*)-ET(+)		19½	66	31½	90	43½	114	55½	138
9	42	AHF(†)-0942-(*)-ET(+)		19½	72	31½	96	43½	120	55½	144
6	9	AHF(†)-0609-(*)-ET(+)		18	39	30	63	42	87	54	111
6	12	AHF(†)-0612-(*)-ET(+)		18	42	30	66	42	90	54	114
6	18	AHF(†)-0618-(*)-ET(+)		18	48	30	72	42	96	54	120
6	24	AHF(†)-0624-(*)-ET(+)		18	54	30	78	42	102	54	126
6	30	AHF(†)-0630-(*)-ET(+)		18	60	30	84	42	108	54	132
6	36	AHF(†)-0636-(*)-ET(+)		18	66	30	90	42	114	54	138
6	42	AHF(†)-0642-(*)-ET(+)		18	72	30	96	42	120	54	144

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. (+) Insert radius (12 in. – 48 in.). Includes 2 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



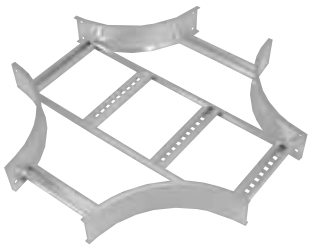
Aluminum fittings

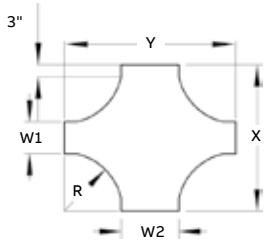
U-style horizontal expanding cross fittings

Selection guide

- Tray widths W1: 36, 30, 24, 18, 12, 9, 6 in.
- Tray widths W2: 42, 36, 30, 24, 18, 12, 9 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

Horizontal expanding cross – U-style

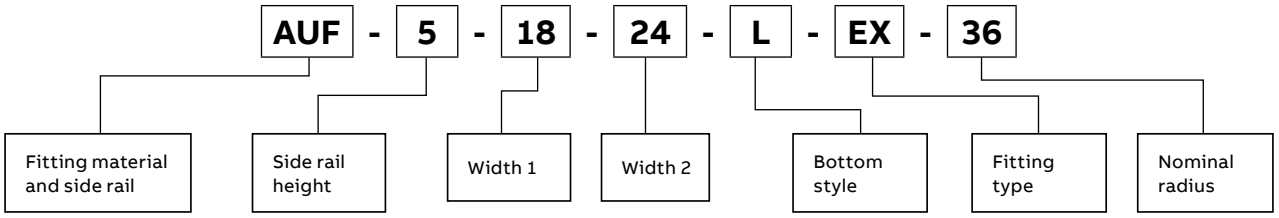




Widths (in.)			Dimensions (in.)							
			(+) 12 in. Nominal radius		(+) 24 in. Nominal radius		(+) 36 in. Nominal radius		(+) 48 in. Nominal radius	
W1	W2	Cat. no.	X	Y	X	Y	X	Y	X	Y
36	42	AUF(†)-3642-(*)-EX(+)	60	66	84	90	108	114	132	138
30	36	AUF(†)-3036-(*)-EX(+)	54	60	78	84	102	108	126	132
30	42	AUF(†)-3042-(*)-EX(+)	54	66	78	90	102	114	126	138
24	30	AUF(†)-2430-(*)-EX(+)	48	54	72	78	96	102	120	126
24	36	AUF(†)-2436-(*)-EX(+)	48	60	72	84	96	108	120	132
24	42	AUF(†)-2442-(*)-EX(+)	48	66	72	90	96	114	120	138
18	24	AUF(†)-1824-(*)-EX(+)	42	48	66	72	90	96	114	120
18	30	AUF(†)-1830-(*)-EX(+)	42	54	66	78	90	102	114	126
18	36	AUF(†)-1836-(*)-EX(+)	42	60	66	84	90	108	114	132
18	42	AUF(†)-1842-(*)-EX(+)	42	66	66	90	90	114	114	138
12	18	AUF(†)-1218-(*)-EX(+)	36	42	60	66	84	90	108	114
12	24	AUF(†)-1224-(*)-EX(+)	36	48	60	72	84	96	108	120
12	30	AUF(†)-1230-(*)-EX(+)	36	54	60	78	84	102	108	126
12	36	AUF(†)-1236-(*)-EX(+)	36	60	60	84	84	108	108	132
12	42	AUF(†)-1242-(*)-EX(+)	36	66	60	90	84	114	108	138
9	12	AUF(†)-0912-(*)-EX(+)	33	36	57	60	81	84	105	108
9	18	AUF(†)-0918-(*)-EX(+)	33	42	57	66	81	90	105	114
9	24	AUF(†)-0924-(*)-EX(+)	33	48	57	72	81	96	105	120
9	30	AUF(†)-0930-(*)-EX(+)	33	54	57	78	81	102	105	126
9	36	AUF(†)-0936-(*)-EX(+)	33	60	57	84	81	108	105	132
9	42	AUF(†)-0942-(*)-EX(+)	33	66	57	90	81	114	105	138
6	9	AUF(†)-0609-(*)-EX(+)	30	33	54	57	78	81	102	105
6	12	AUF(†)-0612-(*)-EX(+)	30	36	54	60	78	84	102	108
6	18	AUF(†)-0618-(*)-EX(+)	30	42	54	66	78	90	102	114
6	24	AUF(†)-0624-(*)-EX(+)	30	48	54	72	78	96	102	120
6	30	AUF(†)-0630-(*)-EX(+)	30	54	54	78	78	102	102	126
6	36	AUF(†)-0636-(*)-EX(+)	30	60	54	84	78	108	102	132
6	42	AUF(†)-0642-(*)-EX(+)	30	66	54	90	78	114	102	138

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. (+) Insert radius (12 in. – 48 in.). Includes 3 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems H-style and U-style. These systems are interchangeable.

Part numbering system



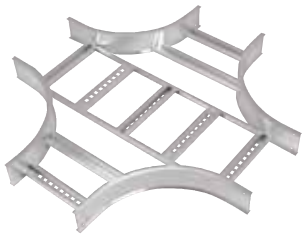
Aluminum fittings

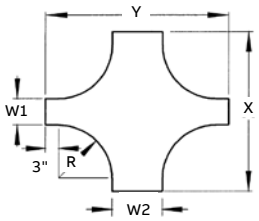
H-style horizontal expanding cross fittings

Selection guide

- Tray widths W1: 36, 30, 24, 18, 12, 9, 6 in.
- Tray widths W2: 42, 36, 30, 24, 18, 12, 9 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

Horizontal expanding cross – H-style

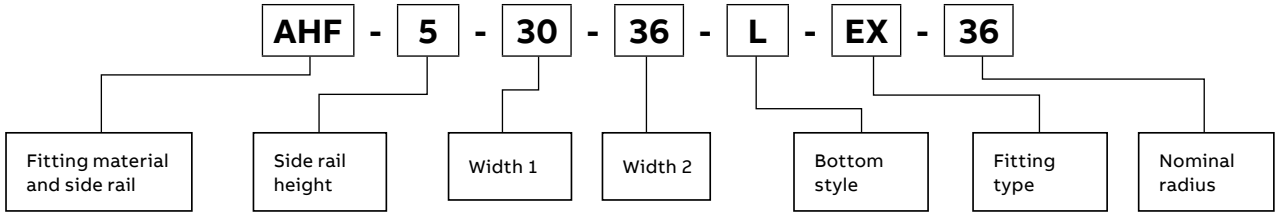




Widths (in.)			Dimensions (in.)							
			(+) 12 in. Nominal radius		(+) 24 in. Nominal radius		(+) 36 in. Nominal radius		(+) 48 in. Nominal radius	
W1	W2	Cat. no.	X	Y	X	Y	X	Y	X	Y
36	42	AHF(†)-3642-(*)-EX(+)	66	72	90	96	114	120	138	144
30	36	AHF(†)-3036-(*)-EX(+)	60	66	84	90	108	114	132	138
30	42	AHF(†)-3042-(*)-EX(+)	60	72	84	96	108	120	132	144
24	30	AHF(†)-2430-(*)-EX(+)	54	60	78	84	102	108	126	132
24	36	AHF(†)-2436-(*)-EX(+)	54	66	78	90	102	114	126	138
24	42	AHF(†)-2442-(*)-EX(+)	54	75	78	96	102	120	126	144
18	24	AHF(†)-1824-(*)-EX(+)	48	54	72	78	96	102	120	126
18	30	AHF(†)-1830-(*)-EX(+)	48	60	72	84	96	108	120	132
18	36	AHF(†)-1836-(*)-EX(+)	48	66	72	90	96	114	120	138
18	42	AHF(†)-1842-(*)-EX(+)	48	72	72	96	96	120	120	144
12	18	AHF(†)-1218-(*)-EX(+)	42	48	66	72	90	96	114	120
12	24	AHF(†)-1224-(*)-EX(+)	42	54	66	78	90	102	114	126
12	30	AHF(†)-1230-(*)-EX(+)	42	60	66	84	90	108	114	132
12	36	AHF(†)-1236-(*)-EX(+)	42	66	66	90	90	114	114	138
12	42	AHF(†)-1242-(*)-EX(+)	42	72	66	96	90	120	114	144
9	12	AHF(†)-0912-(*)-EX(+)	39	42	63	66	87	90	111	114
9	18	AHF(†)-0918-(*)-EX(+)	39	48	63	72	87	96	111	120
9	24	AHF(†)-0924-(*)-EX(+)	39	54	63	78	87	102	111	126
9	30	AHF(†)-0930-(*)-EX(+)	39	60	63	84	87	108	111	132
9	36	AHF(†)-0936-(*)-EX(+)	39	66	63	90	87	114	111	138
9	42	AHF(†)-0942-(*)-EX(+)	39	72	63	96	87	120	111	144
6	9	AHF(†)-0609-(*)-EX(+)	36	39	60	63	84	87	108	111
6	12	AHF(†)-0612-(*)-EX(+)	36	42	60	66	84	90	108	114
6	18	AHF(†)-0618-(*)-EX(+)	36	48	60	72	84	96	108	120
6	24	AHF(†)-0624-(*)-EX(+)	36	54	60	78	84	102	108	126
6	30	AHF(†)-0630-(*)-EX(+)	36	60	60	84	84	108	108	132
6	36	AHF(†)-0636-(*)-EX(+)	36	66	60	90	84	114	108	138
6	42	AHF(†)-0642-(*)-EX(+)	36	72	60	96	84	120	108	144

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. (+) Insert radius (12 in. – 48 in.). Includes 3 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



Aluminum fittings

U-style reducer fittings

Offset reducer – left

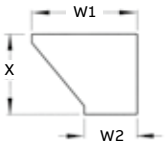
Reducer – straight

Offset reducer – right

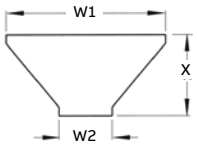
Horizontal reducers – U-style

Widths (in.)		Left reducer		Straight reducer (concentric)		Right reducer	
W1	W2	Cat. no.	Dim. X (in.)	Cat. no.	Dim. X (in.)	Cat. no.	Dim. X (in.)
42	36	AUF(†)-42-36-(*)-HLR	15 7/16	AUF(†)-42-36-(*)-HSR	13 3/4	AUF(†)-42-36-(*)-HRR	15 7/16
42	30	AUF(†)-42-30-(*)-HLR	18 15/16	AUF(†)-42-30-(*)-HSR	15 7/16	AUF(†)-42-30-(*)-HRR	18 15/16
42	24	AUF(†)-42-24-(*)-HLR	22 3/8	AUF(†)-42-24-(*)-HSR	17 3/16	AUF(†)-42-24-(*)-HRR	22 3/8
42	18	AUF(†)-42-18-(*)-HLR	25 7/8	AUF(†)-42-18-(*)-HSR	18 5/16	AUF(†)-42-18-(*)-HRR	25 7/8
42	12	AUF(†)-42-12-(*)-HLR	29 5/16	AUF(†)-42-12-(*)-HSR	20 5/8	AUF(†)-42-12-(*)-HRR	29 5/16
42	9	AUF(†)-42-09-(*)-HLR	31 1/16	AUF(†)-42-09-(*)-HSR	21 1/2	AUF(†)-42-09-(*)-HRR	31 1/16
42	6	AUF(†)-42-06-(*)-HLR	32 3/4	AUF(†)-42-06-(*)-HSR	22 3/8	AUF(†)-42-06-(*)-HRR	32 3/4
36	30	AUF(†)-36-30-(*)-HLR	15 7/16	AUF(†)-36-30-(*)-HSR	13 3/4	AUF(†)-36-30-(*)-HRR	15 7/16
36	24	AUF(†)-36-24-(*)-HLR	18 15/16	AUF(†)-36-24-(*)-HSR	15 7/16	AUF(†)-36-24-(*)-HRR	18 15/16
36	18	AUF(†)-36-18-(*)-HLR	22 3/8	AUF(†)-36-18-(*)-HSR	17 3/8	AUF(†)-36-18-(*)-HRR	22 3/8
36	12	AUF(†)-36-12-(*)-HLR	25 7/8	AUF(†)-36-12-(*)-HSR	18 5/16	AUF(†)-36-12-(*)-HRR	25 7/8
36	9	AUF(†)-36-09-(*)-HLR	27 9/16	AUF(†)-36-09-(*)-HSR	19 13/16	AUF(†)-36-09-(*)-HRR	27 9/16
36	6	AUF(†)-36-06-(*)-HLR	29 5/16	AUF(†)-36-06-(*)-HSR	20 11/16	AUF(†)-36-06-(*)-HRR	29 5/16

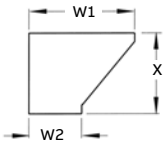
Offset reducer – left



Reducer – straight

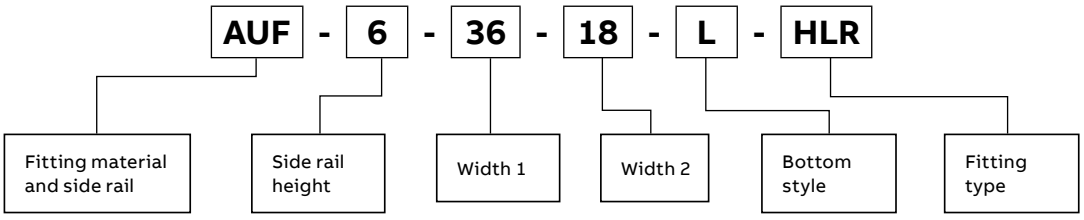


Offset reducer – right



(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



Offset reducer – left

Reducer – straight

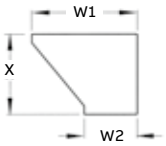
Offset reducer – right

—

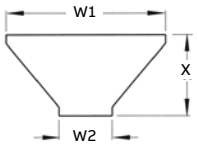
Horizontal reducers – U-style

Widths (in.)								
W1	W2	Left reducer Cat. no.	Dim. X (in.)	Straight reducer (concentric) Cat. no.	Dim. X (in.)	Right reducer Cat. no.	Dim. X (in.)
30	24	AUF(†)-30-24-(*)-HLR	15 7/16	AUF(†)-30-24-(*)-HSR	13 3/4	AUF(†)-30-24-(*)-HRR	15 7/16
30	18	AUF(†)-30-18-(*)-HLR	18 15/16	AUF(†)-30-18-(*)-HSR	15 7/16	AUF(†)-30-18-(*)-HRR	18 15/16
30	12	AUF(†)-30-12-(*)-HLR	22 3/8	AUF(†)-30-12-(*)-HSR	17 3/16	AUF(†)-30-12-(*)-HRR	22 3/8
30	9	AUF(†)-30-09-(*)-HLR	24 1/8	AUF(†)-30-09-(*)-HSR	18 1/16	AUF(†)-30-09-(*)-HRR	24 1/8
30	6	AUF(†)-30-06-(*)-HLR	25 7/8	AUF(†)-30-06-(*)-HSR	18 15/16	AUF(†)-30-06-(*)-HRR	25 7/8
24	18	AUF(†)-24-18-(*)-HLR	15 7/16	AUF(†)-24-18-(*)-HSR	13 3/4	AUF(†)-24-18-(*)-HRR	15 7/16
24	12	AUF(†)-24-12-(*)-HLR	18 15/16	AUF(†)-24-12-(*)-HSR	15 7/16	AUF(†)-24-12-(*)-HRR	18 15/16
24	9	AUF(†)-24-09-(*)-HLR	20 11/16	AUF(†)-24-09-(*)-HSR	16 5/16	AUF(†)-24-09-(*)-HRR	20 11/16
24	6	AUF(†)-24-06-(*)-HLR	22 3/8	AUF(†)-24-06-(*)-HSR	17 3/16	AUF(†)-24-06-(*)-HRR	22 3/8
18	12	AUF(†)-18-12-(*)-HLR	15 7/16	AUF(†)-18-12-(*)-HSR	13 3/4	AUF(†)-18-12-(*)-HRR	15 7/16
18	9	AUF(†)-18-09-(*)-HLR	17 3/16	AUF(†)-18-09-(*)-HSR	14 5/8	AUF(†)-18-09-(*)-HRR	17 3/16
18	6	AUF(†)-18-06-(*)-HLR	18 15/16	AUF(†)-18-06-(*)-HSR	15 7/16	AUF(†)-18-06-(*)-HRR	18 15/16
12	9	AUF(†)-12-09-(*)-HLR	13 3/4	AUF(†)-12-09-(*)-HSR	12 7/8	AUF(†)-12-09-(*)-HRR	13 3/4
12	6	AUF(†)-12-06-(*)-HLR	15 7/16	AUF(†)-12-06-(*)-HSR	13 3/4	AUF(†)-12-06-(*)-HRR	15 7/16
9	6	AUF(†)-09-06-(*)-HLR	13 3/4	AUF(†)-09-06-(*)-HSR	12 7/8	AUF(†)-09-06-(*)-HRR	13 3/4

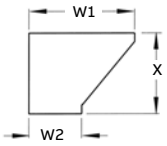
Offset reducer – left



Reducer – straight



Offset reducer – right



(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Selection guide

- Tray widths W1: 42, 36, 30, 24, 18, 12, 9 in.
- Tray widths W2: 36, 30, 24, 18, 12, 9, 6 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

Aluminum fittings

H-style reducer fittings

Offset reducer – left

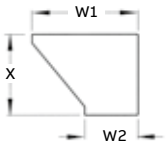
Reducer – straight

Offset reducer – right

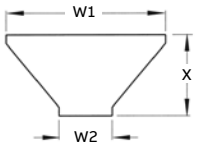
Horizontal reducers – H-style

Widths (in.)		Left reducer		Straight reducer (concentric)		Right reducer	
W1	W2	Cat. no.	Dim. X (in.)	Cat. no.	Dim. X (in.)	Cat. no.	Dim. X (in.)
42	36	AHF(†)-42-36-(*)-HLR	15 7/16	AHF(†)-42-36-(*)-HSR	13 3/4	AHF(†)-42-36-(*)-HRR	15 7/16
	30	AHF(†)-42-30-(*)-HLR	18 15/16	AHF(†)-42-30-(*)-HSR	15 7/16	AHF(†)-42-30-(*)-HRR	18 15/16
	24	AHF(†)-42-24-(*)-HLR	22 3/8	AHF(†)-42-24-(*)-HSR	17 3/16	AHF(†)-42-24-(*)-HRR	22 3/8
	18	AHF(†)-42-18-(*)-HLR	25 7/8	AHF(†)-42-18-(*)-HSR	18 5/16	AHF(†)-42-18-(*)-HRR	25 7/8
	12	AHF(†)-42-12-(*)-HLR	29 5/16	AHF(†)-42-12-(*)-HSR	20 5/8	AHF(†)-42-12-(*)-HRR	29 5/16
	9	AHF(†)-42-09-(*)-HLR	31 1/16	AHF(†)-42-09-(*)-HSR	21 1/2	AHF(†)-42-09-(*)-HRR	31 1/16
	6	AHF(†)-42-06-(*)-HLR	32 3/4	AHF(†)-42-06-(*)-HSR	22 3/8	AHF(†)-42-06-(*)-HRR	32 3/4
36	30	AHF(†)-36-30-(*)-HLR	15 7/16	AHF(†)-36-30-(*)-HSR	13 3/4	AHF(†)-36-30-(*)-HRR	15 7/16
	24	AHF(†)-36-24-(*)-HLR	18 15/16	AHF(†)-36-24-(*)-HSR	15 7/16	AHF(†)-36-24-(*)-HRR	18 15/16
	18	AHF(†)-36-18-(*)-HLR	22 3/8	AHF(†)-36-18-(*)-HSR	17 3/8	AHF(†)-36-18-(*)-HRR	22 3/8
	12	AHF(†)-36-12-(*)-HLR	25 7/8	AHF(†)-36-12-(*)-HSR	18 5/16	AHF(†)-36-12-(*)-HRR	25 7/8
	9	AHF(†)-36-09-(*)-HLR	27 9/16	AHF(†)-36-09-(*)-HSR	19 13/16	AHF(†)-36-09-(*)-HRR	27 9/16
	6	AHF(†)-36-06-(*)-HLR	29 5/16	AHF(†)-36-06-(*)-HSR	20 11/16	AHF(†)-36-06-(*)-HRR	29 5/16
30	24	AHF(†)-30-24-(*)-HLR	15 7/16	AHF(†)-30-24-(*)-HSR	13 3/4	AHF(†)-30-24-(*)-HRR	15 7/16
	18	AHF(†)-30-18-(*)-HLR	18 15/16	AHF(†)-30-18-(*)-HSR	15 7/16	AHF(†)-30-18-(*)-HRR	18 15/16
	12	AHF(†)-30-12-(*)-HLR	22 3/8	AHF(†)-30-12-(*)-HSR	17 3/16	AHF(†)-30-12-(*)-HRR	22 3/8
	9	AHF(†)-30-09-(*)-HLR	24 1/8	AHF(†)-30-09-(*)-HSR	18 1/16	AHF(†)-30-09-(*)-HRR	24 1/8
	6	AHF(†)-30-06-(*)-HLR	25 7/8	AHF(†)-30-06-(*)-HSR	18 15/16	AHF(†)-30-06-(*)-HRR	25 7/8

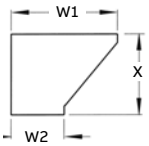
Offset reducer – left



Reducer – straight

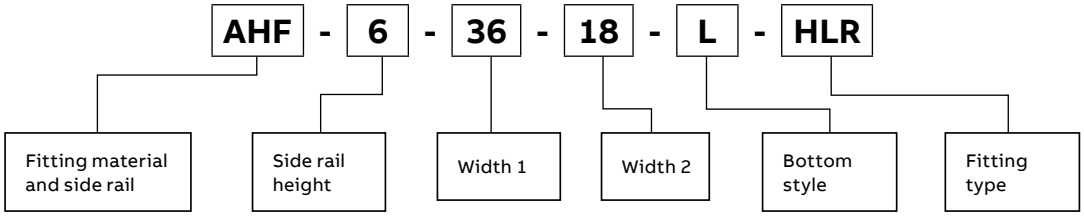


Offset reducer – right



(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



Offset reducer – left

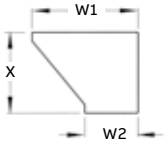
Reducer – straight

Offset reducer – right

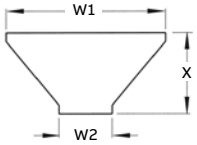
Horizontal reducers – H-style

Widths (in.)		Left reducer		Straight reducer (concentric)		Right reducer	
W1	W2	Cat. no.	Dim. X (in.)	Cat. no.	Dim. X (in.)	Cat. no.	Dim. X (in.)
24	18	AHF(†)-24-18-(*)-HLR	15 7/16	AHF(†)-24-18-(*)-HSR	13 3/4	AHF(†)-24-18-(*)-HRR	15 7/16
	12	AHF(†)-24-12-(*)-HLR	18 15/16	AHF(†)-24-12-(*)-HSR	15 7/16	AHF(†)-24-12-(*)-HRR	18 15/16
	9	AHF(†)-24-09-(*)-HLR	20 11/16	AHF(†)-24-09-(*)-HSR	16 5/16	AHF(†)-24-09-(*)-HRR	20 11/16
	6	AHF(†)-24-06-(*)-HLR	22 3/8	AHF(†)-24-06-(*)-HSR	17 3/16	AHF(†)-24-06-(*)-HRR	22 3/8
18	12	AHF(†)-18-12-(*)-HLR	15 7/16	AHF(†)-18-12-(*)-HSR	13 3/4	AHF(†)-18-12-(*)-HRR	15 7/16
	9	AHF(†)-18-09-(*)-HLR	17 3/16	AHF(†)-18-09-(*)-HSR	14 5/8	AHF(†)-18-09-(*)-HRR	17 3/16
	6	AHF(†)-18-06-(*)-HLR	18 15/16	AHF(†)-18-06-(*)-HSR	15 7/16	AHF(†)-18-06-(*)-HRR	18 15/16
12	9	AHF(†)-12-09-(*)-HLR	13 3/4	AHF(†)-12-09-(*)-HSR	12 7/8	AHF(†)-12-09-(*)-HRR	13 3/4
	6	AHF(†)-12-06-(*)-HLR	15 7/16	AHF(†)-12-06-(*)-HSR	13 3/4	AHF(†)-12-06-(*)-HRR	15 7/16
9	6	AHF(†)-09-06-(*)-HLR	13 3/4	AHF(†)-09-06-(*)-HSR	12 7/8	AHF(†)-09-06-(*)-HRR	13 3/4

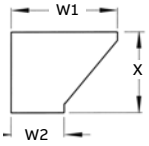
Offset reducer – left



Reducer – straight



Offset reducer – right



(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

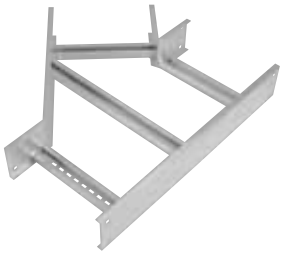
Selection guide

- Tray widths W1: 42, 36, 30, 24, 18, 12, 9 in.
- Tray widths W2: 36, 30, 24, 18, 12, 9, 6 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

Aluminum fittings

45° U-style horizontal wye fittings

Left-hand wye



Right-hand wye

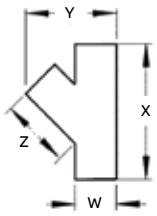
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

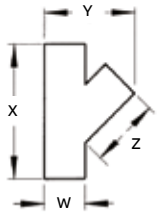
45° Horizontal wye – U-style

Width (in.)	Left-hand wye Cat. no.	Right-hand wye Cat. no.	Dimensions (in.) X	Y	Z
6	AUF(†)-06-(*)-HYL	AUF(†)-06-(*)-HYR	18 5/16	14 13/16	12 7/16
9	AUF(†)-09-(*)-HYL	AUF(†)-09-(*)-HYR	22 1/2	19 15/16	15 7/16
12	AUF(†)-12-(*)-HYL	AUF(†)-12-(*)-HYR	26 3/4	25	18 7/16
18	AUF(†)-18-(*)-HYL	AUF(†)-18-(*)-HYR	35 1/4	35 1/4	24 7/16
24	AUF(†)-24-(*)-HYL	AUF(†)-24-(*)-HYR	43 1/2	45 1/2	30 7/16
30	AUF(†)-30-(*)-HYL	AUF(†)-30-(*)-HYR	52 1/4	55 3/4	36 7/16
36	AUF(†)-36-(*)-HYL	AUF(†)-36-(*)-HYR	60 11/16	66	42 7/16
42	AUF(†)-42-(*)-HYL	AUF(†)-42-(*)-HYR	69 3/16	76 1/4	45 7/16

Left-hand wye

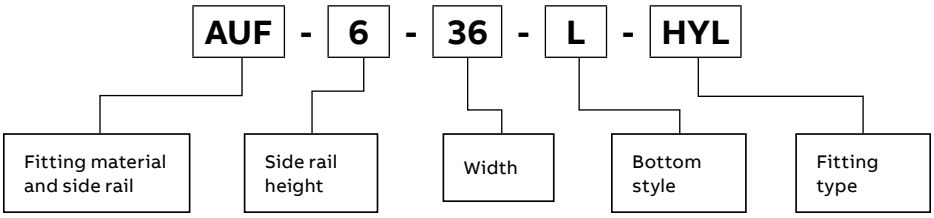


Right-hand wye



(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 2 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



Aluminum fittings

45° H-style horizontal wye fittings

Left-hand wye

Right-hand wye

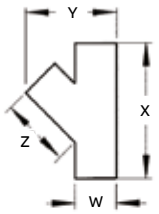
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

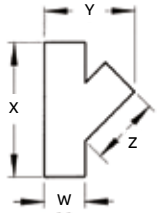
45° Horizontal wye – H-style

Width (in.)	Left-hand wye Cat. no.	Right-hand wye Cat. no.	Dimensions (in.) X	Y	Z
6	AHF(†)-06-(*)-HYL	AHF(†)-06-(*)-HYR	18 5/16	14 13/16	12 7/16
9	AHF(†)-09-(*)-HYL	AHF(†)-09-(*)-HYR	22 1/2	19 15/16	15 7/16
12	AHF(†)-12-(*)-HYL	AHF(†)-12-(*)-HYR	26 3/4	25	18 7/16
18	AHF(†)-18-(*)-HYL	AHF(†)-18-(*)-HYR	35 1/4	35 1/4	24 7/16
24	AHF(†)-24-(*)-HYL	AHF(†)-24-(*)-HYR	43 1/2	45 1/2	30 7/16
30	AHF(†)-30-(*)-HYL	AHF(†)-30-(*)-HYR	52 1/4	55 3/4	36 7/16
36	AHF(†)-36-(*)-HYL	AHF(†)-36-(*)-HYR	60 11/16	66	42 7/16
42	AHF(†)-42-(*)-HYL	AHF(†)-42-(*)-HYR	69 3/16	76 1/4	45 7/16

Left hand wye

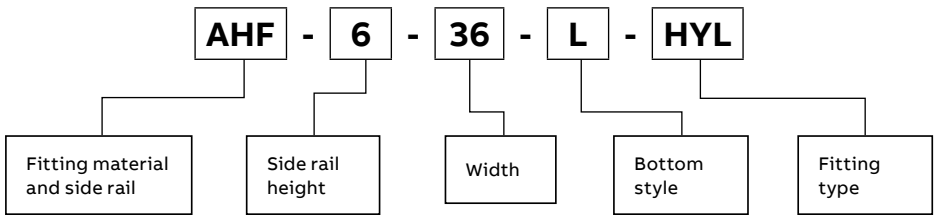


Right hand wye



(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 2 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



Aluminum fittings

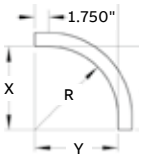
90° U-style vertical bend fittings

Selection guide

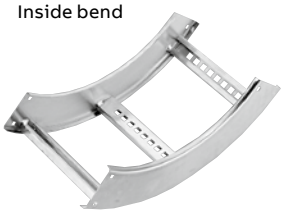
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 90°
- Radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

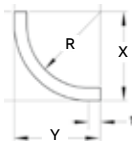
90° Vertical bend – U-style

Outside bend



Inside bend

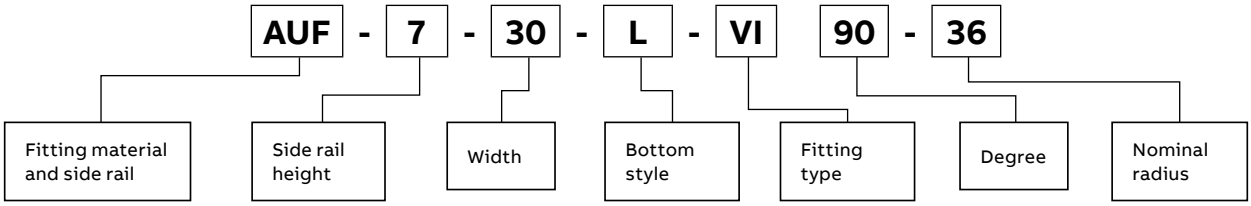




				Dimensions (in.)									
				(+) VO side rail								(+) VI side rail	
	Nominal			4 in. – 7 in.		4 in.		5 in.		6 in.		7 in.	
	Radius (in.)	Width (in.)	Cat. no.	X	Y	X	Y	X	Y	X	Y	X	Y
	12	6	AUF(†)-06-(*)-(+)90-12	12	12	17 15/16	17 15/16	18 13/16	18 13/16	20	20	21	21
	12	9	AUF(†)-09-(*)-(+)90-12	12	12	17 15/16	17 15/16	18 13/16	18 13/16	20	20	21	21
	12	12	AUF(†)-12-(*)-(+)90-12	12	12	17 15/16	17 15/16	18 13/16	18 13/16	20	20	21	21
	12	18	AUF(†)-18-(*)-(+)90-12	12	12	17 15/16	17 15/16	18 13/16	18 13/16	20	20	21	21
	12	24	AUF(†)-24-(*)-(+)90-12	12	12	17 15/16	17 15/16	18 13/16	18 13/16	20	20	21	21
	12	30	AUF(†)-30-(*)-(+)90-12	12	12	17 15/16	17 15/16	18 13/16	18 13/16	20	20	21	21
	12	36	AUF(†)-36-(*)-(+)90-12	12	12	17 15/16	17 15/16	18 13/16	18 13/16	20	20	21	21
	12	42	AUF(†)-42-(*)-(+)90-12	12	12	17 15/16	17 15/16	18 13/16	18 13/16	20	20	21	21
	24	6	AUF(†)-06-(*)-(+)90-24	24	24	29 15/16	29 15/16	30 13/16	30 13/16	32	32	33	33
	24	9	AUF(†)-09-(*)-(+)90-24	24	24	29 15/16	29 15/16	30 13/16	30 13/16	32	32	33	33
	24	12	AUF(†)-12-(*)-(+)90-24	24	24	29 15/16	29 15/16	30 13/16	30 13/16	32	32	33	33
	24	18	AUF(†)-18-(*)-(+)90-24	24	24	29 15/16	29 15/16	30 13/16	30 13/16	32	32	33	33
	24	24	AUF(†)-24-(*)-(+)90-24	24	24	29 15/16	29 15/16	30 13/16	30 13/16	32	32	33	33
	24	30	AUF(†)-30-(*)-(+)90-24	24	24	29 15/16	29 15/16	30 13/16	30 13/16	32	32	33	33
	24	36	AUF(†)-36-(*)-(+)90-24	24	24	29 15/16	29 15/16	30 13/16	30 13/16	32	32	33	33
	24	42	AUF(†)-42-(*)-(+)90-24	24	24	29 15/16	29 15/16	30 13/16	30 13/16	32	32	33	33
	36	6	AUF(†)-06-(*)-(+)90-36	36	36	41 15/16	41 15/16	42 13/16	42 13/16	44	44	33	33
	36	9	AUF(†)-09-(*)-(+)90-36	36	36	41 15/16	41 15/16	42 13/16	42 13/16	44	44	33	33
	36	12	AUF(†)-12-(*)-(+)90-36	36	36	41 15/16	41 15/16	42 13/16	42 13/16	44	44	33	33
	36	18	AUF(†)-18-(*)-(+)90-36	36	36	41 15/16	41 15/16	42 13/16	42 13/16	44	44	33	33
	36	24	AUF(†)-24-(*)-(+)90-36	36	36	41 15/16	41 15/16	42 13/16	42 13/16	44	44	33	33
	36	30	AUF(†)-30-(*)-(+)90-36	36	36	41 15/16	41 15/16	42 13/16	42 13/16	44	44	33	33
	36	36	AUF(†)-36-(*)-(+)90-36	36	36	41 15/16	41 15/16	42 13/16	42 13/16	44	44	33	33
	36	42	AUF(†)-42-(*)-(+)90-36	36	36	41 15/16	41 15/16	42 13/16	42 13/16	44	44	33	33
	48	6	AUF(†)-06-(*)-(+)90-48	48	48	53 15/16	53 15/16	54 13/16	54 13/16	56	56	57	57
	48	9	AUF(†)-09-(*)-(+)90-48	48	48	53 15/16	53 15/16	54 13/16	54 13/16	56	56	57	57
	48	12	AUF(†)-12-(*)-(+)90-48	48	48	53 15/16	53 15/16	54 13/16	54 13/16	56	56	57	57
	48	18	AUF(†)-18-(*)-(+)90-48	48	48	53 15/16	53 15/16	54 13/16	54 13/16	56	56	57	57
	48	24	AUF(†)-24-(*)-(+)90-48	48	48	53 15/16	53 15/16	54 13/16	54 13/16	56	56	57	57
	48	30	AUF(†)-30-(*)-(+)90-48	48	48	53 15/16	53 15/16	54 13/16	54 13/16	56	56	57	57
	48	36	AUF(†)-36-(*)-(+)90-48	48	48	53 15/16	53 15/16	54 13/16	54 13/16	56	56	57	57
	48	42	AUF(†)-42-(*)-(+)90-48	48	48	53 15/16	53 15/16	54 13/16	54 13/16	56	56	57	57

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



Aluminum fittings

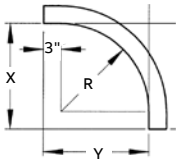
90° H-style vertical bend fittings

Selection guide

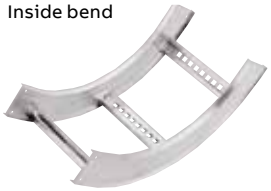
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 90°
- Radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

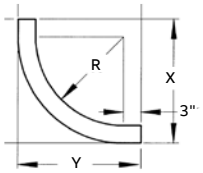
90° Vertical bend – H-style

Outside bend



Inside bend

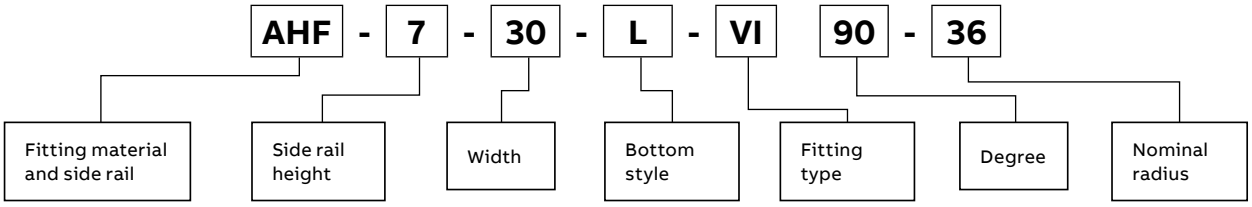




				Dimensions (in.)									
				(+) VO side rail		(+) VI side rail							
	Nominal			4 in. – 7 in.		4 in.		5 in.		6 in.		7 in.	
	Radius (in.)	Width (in.)	Cat. no.	X	Y	X	Y	X	Y	X	Y	X	Y
	12	6	AHF(†)-06-(*)-(+)90-12	15	15	19 3/16	19 3/16	20 1/16	20 1/16	21 1/4	21 1/4	22 1/4	22 1/4
	12	9	AHF(†)-09-(*)-(+)90-12	15	15	19 3/16	19 3/16	20 1/16	20 1/16	21 1/4	21 1/4	22 1/4	22 1/4
	12	12	AHF(†)-12-(*)-(+)90-12	15	15	19 3/16	19 3/16	20 1/16	20 1/16	21 1/4	21 1/4	22 1/4	22 1/4
	12	18	AHF(†)-18-(*)-(+)90-12	15	15	19 3/16	19 3/16	20 1/16	20 1/16	21 1/4	21 1/4	22 1/4	22 1/4
	12	24	AHF(†)-24-(*)-(+)90-12	15	15	19 3/16	19 3/16	20 1/16	20 1/16	21 1/4	21 1/4	22 1/4	22 1/4
	12	30	AHF(†)-30-(*)-(+)90-12	15	15	19 3/16	19 3/16	20 1/16	20 1/16	21 1/4	21 1/4	22 1/4	22 1/4
	12	36	AHF(†)-36-(*)-(+)90-12	15	15	19 3/16	19 3/16	20 1/16	20 1/16	21 1/4	21 1/4	22 1/4	22 1/4
	12	42	AHF(†)-42-(*)-(+)90-12	15	15	19 3/16	19 3/16	20 1/16	20 1/16	21 1/4	21 1/4	22 1/4	22 1/4
	24	6	AHF(†)-06-(*)-(+)90-24	27	27	31 3/16	31 3/16	32 1/16	32 1/16	33 1/4	33 1/4	34 1/4	34 1/4
	24	9	AHF(†)-09-(*)-(+)90-24	27	27	31 3/16	31 3/16	32 1/16	32 1/16	33 1/4	33 1/4	34 1/4	34 1/4
	24	12	AHF(†)-12-(*)-(+)90-24	27	27	31 3/16	31 3/16	32 1/16	32 1/16	33 1/4	33 1/4	34 1/4	34 1/4
	24	18	AHF(†)-18-(*)-(+)90-24	27	27	31 3/16	31 3/16	32 1/16	32 1/16	33 1/4	33 1/4	34 1/4	34 1/4
	24	24	AHF(†)-24-(*)-(+)90-24	27	27	31 3/16	31 3/16	32 1/16	32 1/16	33 1/4	33 1/4	34 1/4	34 1/4
	24	30	AHF(†)-30-(*)-(+)90-24	27	27	31 3/16	31 3/16	32 1/16	32 1/16	33 1/4	33 1/4	34 1/4	34 1/4
	24	36	AHF(†)-36-(*)-(+)90-24	27	27	31 3/16	31 3/16	32 1/16	32 1/16	33 1/4	33 1/4	34 1/4	34 1/4
	24	42	AHF(†)-42-(*)-(+)90-24	27	27	31 3/16	31 3/16	32 1/16	32 1/16	33 1/4	33 1/4	34 1/4	34 1/4
	36	6	AHF(†)-06-(*)-(+)90-36	39	39	43 3/16	43 3/16	44 1/16	44 1/16	45 1/4	45 1/4	46 1/4	46 1/4
	36	9	AHF(†)-09-(*)-(+)90-36	39	39	43 3/16	43 3/16	44 1/16	44 1/16	45 1/4	45 1/4	46 1/4	46 1/4
	36	12	AHF(†)-12-(*)-(+)90-36	39	39	43 3/16	43 3/16	44 1/16	44 1/16	45 1/4	45 1/4	46 1/4	46 1/4
	36	18	AHF(†)-18-(*)-(+)90-36	39	39	43 3/16	43 3/16	44 1/16	44 1/16	45 1/4	45 1/4	46 1/4	46 1/4
	36	24	AHF(†)-24-(*)-(+)90-36	39	39	43 3/16	43 3/16	44 1/16	44 1/16	45 1/4	45 1/4	46 1/4	46 1/4
	36	30	AHF(†)-30-(*)-(+)90-36	39	39	43 3/16	43 3/16	44 1/16	44 1/16	45 1/4	45 1/4	46 1/4	46 1/4
	36	36	AHF(†)-36-(*)-(+)90-36	39	39	43 3/16	43 3/16	44 1/16	44 1/16	45 1/4	45 1/4	46 1/4	46 1/4
	36	42	AHF(†)-42-(*)-(+)90-36	39	39	43 3/16	43 3/16	44 1/16	44 1/16	45 1/4	45 1/4	46 1/4	46 1/4
	48	6	AHF(†)-06-(*)-(+)90-48	51	51	55 3/16	55 3/16	56 1/16	56 1/16	57 1/4	57 1/4	58 1/4	58 1/4
	48	9	AHF(†)-09-(*)-(+)90-48	51	51	55 3/16	55 3/16	56 1/16	56 1/16	57 1/4	57 1/4	58 1/4	58 1/4
	48	12	AHF(†)-12-(*)-(+)90-48	51	51	55 3/16	55 3/16	56 1/16	56 1/16	57 1/4	57 1/4	58 1/4	58 1/4
	48	18	AHF(†)-18-(*)-(+)90-48	51	51	55 3/16	55 3/16	56 1/16	56 1/16	57 1/4	57 1/4	58 1/4	58 1/4
	48	24	AHF(†)-24-(*)-(+)90-48	51	51	55 3/16	55 3/16	56 1/16	56 1/16	57 1/4	57 1/4	58 1/4	58 1/4
	48	30	AHF(†)-30-(*)-(+)90-48	51	51	55 3/16	55 3/16	56 1/16	56 1/16	57 1/4	57 1/4	58 1/4	58 1/4
	48	36	AHF(†)-36-(*)-(+)90-48	51	51	55 3/16	55 3/16	56 1/16	56 1/16	57 1/4	57 1/4	58 1/4	58 1/4
	48	42	AHF(†)-42-(*)-(+)90-48	51	51	55 3/16	55 3/16	56 1/16	56 1/16	57 1/4	57 1/4	58 1/4	58 1/4

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



Aluminum fittings

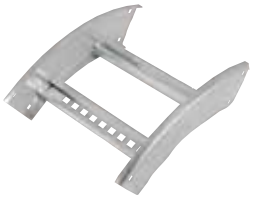
60° U-style vertical bend fittings

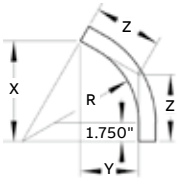
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 60°
- Radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

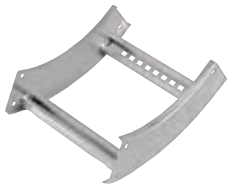
60° Vertical bend – U-style

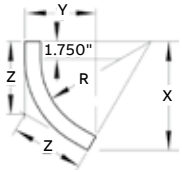
Outside bend





Inside bend

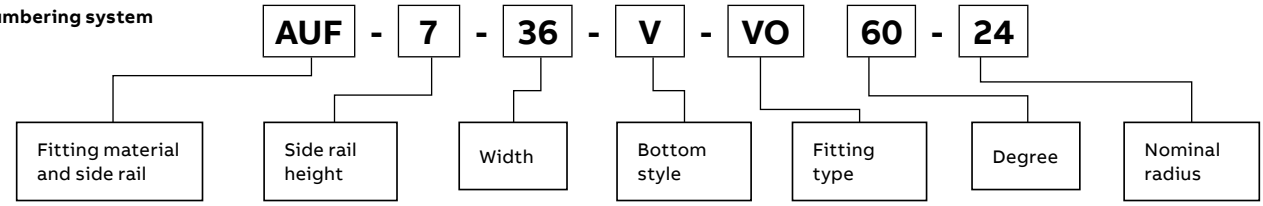




				Dimensions (in.)																
				(+) VO side rail			(+) VI side rail													
	Nominal			4 in. – 7 in.			4 in.			5 in.			6 in.			7 in.				
	Radius (in.)	Width (in.)	Cat. no.	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z		
	12	6	AUF(†)-06-(*)-(+)60-12	13	7½	8 11/16	16 5/8	11 11/16	11 1/16	17 7/16	12 5/8	11 5/8	18 3/8	13 11/16	12 1/4	19 5/16	14 3/4	12 7/8		
	12	9	AUF(†)-09-(*)-(+)60-12	13	7½	8 11/16	16 5/8	11 11/16	11 1/16	17 7/16	12 5/8	11 5/8	18 3/8	13 11/16	12 1/4	19 5/16	14 3/4	12 7/8		
	12	12	AUF(†)-12-(*)-(+)60-12	13	7½	8 11/16	16 5/8	11 11/16	11 1/16	17 7/16	12 5/8	11 5/8	18 3/8	13 11/16	12 1/4	19 5/16	14 3/4	12 7/8		
	12	18	AUF(†)-18-(*)-(+)60-12	13	7½	8 11/16	16 5/8	11 11/16	11 1/16	17 7/16	12 5/8	11 5/8	18 3/8	13 11/16	12 1/4	19 5/16	14 3/4	12 7/8		
	12	24	AUF(†)-24-(*)-(+)60-12	13	7½	8 11/16	16 5/8	11 11/16	11 1/16	17 7/16	12 5/8	11 5/8	18 3/8	13 11/16	12 1/4	19 5/16	14 3/4	12 7/8		
	12	30	AUF(†)-30-(*)-(+)60-12	13	7½	8 11/16	16 5/8	11 11/16	11 1/16	17 7/16	12 5/8	11 5/8	18 3/8	13 11/16	12 1/4	19 5/16	14 3/4	12 7/8		
	12	36	AUF(†)-36-(*)-(+)60-12	13	7½	8 11/16	16 5/8	11 11/16	11 1/16	17 7/16	12 5/8	11 5/8	18 3/8	13 11/16	12 1/4	19 5/16	14 3/4	12 7/8		
	12	42	AUF(†)-42-(*)-(+)60-12	13	7½	8 11/16	16 5/8	11 11/16	11 1/16	17 7/16	12 5/8	11 5/8	18 3/8	13 11/16	12 1/4	19 5/16	14 3/4	12 7/8		
	24	6	AUF(†)-06-(*)-(+)60-24	23 7/16	13½	15 5/8	27	17 11/16	18	27 13/16	18 5/8	16 9/16	28 3/4	19 11/16	19 3/16	29 11/16	20 3/4	19 13/16		
	24	9	AUF(†)-09-(*)-(+)60-24	23 7/16	13½	15 5/8	27	17 11/16	18	27 13/16	18 5/8	16 9/16	28 3/4	19 11/16	19 3/16	29 11/16	20 3/4	19 13/16		
	24	12	AUF(†)-12-(*)-(+)60-24	23 7/16	13½	15 5/8	27	17 11/16	18	27 13/16	18 5/8	16 9/16	28 3/4	19 11/16	19 3/16	29 11/16	20 3/4	19 13/16		
	24	18	AUF(†)-18-(*)-(+)60-24	23 7/16	13½	15 5/8	27	17 11/16	18	27 13/16	18 5/8	16 9/16	28 3/4	19 11/16	19 3/16	29 11/16	20 3/4	19 13/16		
	24	24	AUF(†)-24-(*)-(+)60-24	23 7/16	13½	15 5/8	27	17 11/16	18	27 13/16	18 5/8	16 9/16	28 3/4	19 11/16	19 3/16	29 11/16	20 3/4	19 13/16		
	24	30	AUF(†)-30-(*)-(+)60-24	23 7/16	13½	15 5/8	27	17 11/16	18	27 13/16	18 5/8	16 9/16	28 3/4	19 11/16	19 3/16	29 11/16	20 3/4	19 13/16		
	24	36	AUF(†)-36-(*)-(+)60-24	23 7/16	13½	15 5/8	27	17 11/16	18	27 13/16	18 5/8	16 9/16	28 3/4	19 11/16	19 3/16	29 11/16	20 3/4	19 13/16		
	24	42	AUF(†)-42-(*)-(+)60-24	23 7/16	13½	15 5/8	27	17 11/16	18	27 13/16	18 5/8	16 9/16	28 3/4	19 11/16	19 3/16	29 11/16	20 3/4	19 13/16		
	36	6	AUF(†)-06-(*)-(+)60-36	33 13/16	19½	22 9/16	37 7/16	23 11/16	24 15/16	38 3/16	24 5/8	25 7/16	39 3/16	25 11/16	26 1/8	40 1/16	26 3/4	26 11/16		
	36	9	AUF(†)-09-(*)-(+)60-36	33 13/16	19½	22 9/16	37 7/16	23 11/16	24 15/16	38 3/16	24 5/8	25 7/16	39 3/16	25 11/16	26 1/8	40 1/16	26 3/4	26 11/16		
	36	12	AUF(†)-12-(*)-(+)60-36	33 13/16	19½	22 9/16	37 7/16	23 11/16	24 15/16	38 3/16	24 5/8	25 7/16	39 3/16	25 11/16	26 1/8	40 1/16	26 3/4	26 11/16		
	36	18	AUF(†)-18-(*)-(+)60-36	33 13/16	19½	22 9/16	37 7/16	23 11/16	24 15/16	38 3/16	24 5/8	25 7/16	39 3/16	25 11/16	26 1/8	40 1/16	26 3/4	26 11/16		
	36	24	AUF(†)-24-(*)-(+)60-36	33 13/16	19½	22 9/16	37 7/16	23 11/16	24 15/16	38 3/16	24 5/8	25 7/16	39 3/16	25 11/16	26 1/8	40 1/16	26 3/4	26 11/16		
	36	30	AUF(†)-30-(*)-(+)60-36	33 13/16	19½	22 9/16	37 7/16	23 11/16	24 15/16	38 3/16	24 5/8	25 7/16	39 3/16	25 11/16	26 1/8	40 1/16	26 3/4	26 11/16		
	36	36	AUF(†)-36-(*)-(+)60-36	33 13/16	19½	22 9/16	37 7/16	23 11/16	24 15/16	38 3/16	24 5/8	25 7/16	39 3/16	25 11/16	26 1/8	40 1/16	26 3/4	26 11/16		
	36	42	AUF(†)-42-(*)-(+)60-36	33 13/16	19½	22 9/16	37 7/16	23 11/16	24 15/16	38 3/16	24 5/8	25 7/16	39 3/16	25 11/16	26 1/8	40 1/16	26 3/4	26 11/16		
	48	6	AUF(†)-06-(*)-(+)60-48	44 3/16	25½	29 7/16	47 13/16	29 11/16	31 7/8	48 9/16	30 5/8	32 3/8	49 9/16	31 11/16	33 1/16	50 7/16	32 3/4	33 5/8		
	48	9	AUF(†)-09-(*)-(+)60-48	44 3/16	25½	29 7/16	47 13/16	29 11/16	31 7/8	48 9/16	30 5/8	32 3/8	49 9/16	31 11/16	33 1/16	50 7/16	32 3/4	33 5/8		
	48	12	AUF(†)-12-(*)-(+)60-48	44 3/16	25½	29 7/16	47 13/16	29 11/16	31 7/8	48 9/16	30 5/8	32 3/8	49 9/16	31 11/16	33 1/16	50 7/16	32 3/4	33 5/8		
	48	18	AUF(†)-18-(*)-(+)60-48	44 3/16	25½	29 7/16	47 13/16	29 11/16	31 7/8	48 9/16	30 5/8	32 3/8	49 9/16	31 11/16	33 1/16	50 7/16	32 3/4	33 5/8		
	48	24	AUF(†)-24-(*)-(+)60-48	44 3/16	25½	29 7/16	47 13/16	29 11/16	31 7/8	48 9/16	30 5/8	32 3/8	49 9/16	31 11/16	33 1/16	50 7/16	32 3/4	33 5/8		
	48	30	AUF(†)-30-(*)-(+)60-48	44 3/16	25½	29 7/16	47 13/16	29 11/16	31 7/8	48 9/16	30 5/8	32 3/8	49 9/16	31 11/16	33 1/16	50 7/16	32 3/4	33 5/8		
	48	36	AUF(†)-36-(*)-(+)60-48	44 3/16	25½	29 7/16	47 13/16	29 11/16	31 7/8	48 9/16	30 5/8	32 3/8	49 9/16	31 11/16	33 1/16	50 7/16	32 3/4	33 5/8		
	48	42	AUF(†)-42-(*)-(+)60-48	44 3/16	25½	29 7/16	47 13/16	29 11/16	31 7/8	48 9/16	30 5/8	32 3/8	49 9/16	31 11/16	33 1/16	50 7/16	32 3/4	33 5/8		

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



Aluminum fittings

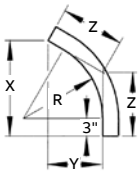
60° H-style vertical bend fittings

Selection guide

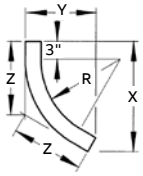
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 60°
- Radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

60° Vertical bend – H-style

Outside bend



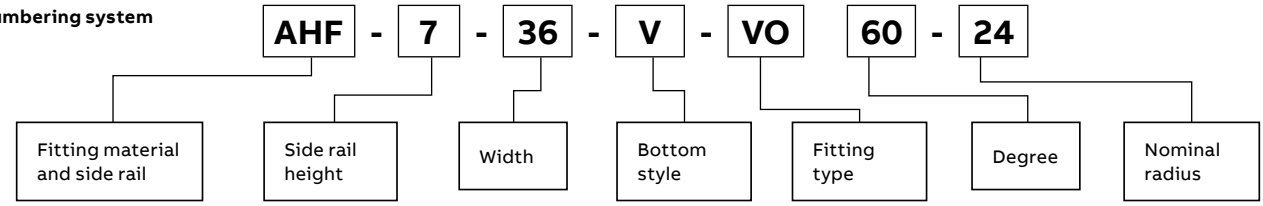
Inside bend



			Dimensions (in.)																
			(+) VO side rail			(+) VI side rail													
	Nominal		4 in. – 7 in.			4 in.			5 in.			6 in.			7 in.				
	Radius (in.)	Width (in.)	Cat. no.	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	
	12	6	AHF(†)-06-(*)-(+)60-12	14⅞	8⅝	9¹⁵⁄₁₆	18½	12¾	12⁵⁄₁₆	19⁵⁄₁₆	13¹¹⁄₁₆	12⅞	20⁵⁄₁₆	14¹³⁄₁₆	13½	21⅛	15¹³⁄₁₆	14⅛	
	12	9	AHF(†)-09-(*)-(+)60-12	14⅞	8⅝	9¹⁵⁄₁₆	18½	12¾	12⁵⁄₁₆	19⁵⁄₁₆	13¹¹⁄₁₆	12⅞	20⁵⁄₁₆	14¹³⁄₁₆	13½	21⅛	15¹³⁄₁₆	14⅛	
	12	12	AHF(†)-12-(*)-(+)60-12	14⅞	8⅝	9¹⁵⁄₁₆	18½	12¾	12⁵⁄₁₆	19⁵⁄₁₆	13¹¹⁄₁₆	12⅞	20⁵⁄₁₆	14¹³⁄₁₆	13½	21⅛	15¹³⁄₁₆	14⅛	
	12	18	AHF(†)-18-(*)-(+)60-12	14⅞	8⅝	9¹⁵⁄₁₆	18½	12¾	12⁵⁄₁₆	19⁵⁄₁₆	13¹¹⁄₁₆	12⅞	20⁵⁄₁₆	14¹³⁄₁₆	13½	21⅛	15¹³⁄₁₆	14⅛	
	12	24	AHF(†)-24-(*)-(+)60-12	14⅞	8⅝	9¹⁵⁄₁₆	18½	12¾	12⁵⁄₁₆	19⁵⁄₁₆	13¹¹⁄₁₆	12⅞	20⁵⁄₁₆	14¹³⁄₁₆	13½	21⅛	15¹³⁄₁₆	14⅛	
	12	30	AHF(†)-30-(*)-(+)60-12	14⅞	8⅝	9¹⁵⁄₁₆	18½	12¾	12⁵⁄₁₆	19⁵⁄₁₆	13¹¹⁄₁₆	12⅞	20⁵⁄₁₆	14¹³⁄₁₆	13½	21⅛	15¹³⁄₁₆	14⅛	
	12	36	AHF(†)-36-(*)-(+)60-12	14⅞	8⅝	9¹⁵⁄₁₆	18½	12¾	12⁵⁄₁₆	19⁵⁄₁₆	13¹¹⁄₁₆	12⅞	20⁵⁄₁₆	14¹³⁄₁₆	13½	21⅛	15¹³⁄₁₆	14⅛	
	12	42	AHF(†)-42-(*)-(+)60-12	14⅞	8⅝	9¹⁵⁄₁₆	18½	12¾	12⁵⁄₁₆	19⁵⁄₁₆	13¹¹⁄₁₆	12⅞	20⁵⁄₁₆	14¹³⁄₁₆	13½	21⅛	15¹³⁄₁₆	14⅛	
	24	6	AHF(†)-06-(*)-(+)60-24	25⁵⁄₁₆	14⅝	16⅞	28⅞	18¾	19¼	29¹¹⁄₁₆	19¹¹⁄₁₆	19¹³⁄₁₆	30¹¹⁄₁₆	20¹³⁄₁₆	20⅞	31⅜	21¹³⁄₁₆	21	
	24	9	AHF(†)-09-(*)-(+)60-24	25⁵⁄₁₆	14⅝	16⅞	28⅞	18¾	19¼	29¹¹⁄₁₆	19¹¹⁄₁₆	19¹³⁄₁₆	30¹¹⁄₁₆	20¹³⁄₁₆	20⅞	31⅜	21¹³⁄₁₆	21	
	24	12	AHF(†)-12-(*)-(+)60-24	25⁵⁄₁₆	14⅝	16⅞	28⅞	18¾	19¼	29¹¹⁄₁₆	19¹¹⁄₁₆	19¹³⁄₁₆	30¹¹⁄₁₆	20¹³⁄₁₆	20⅞	31⅜	21¹³⁄₁₆	21	
	24	18	AHF(†)-18-(*)-(+)60-24	25⁵⁄₁₆	14⅝	16⅞	28⅞	18¾	19¼	29¹¹⁄₁₆	19¹¹⁄₁₆	19¹³⁄₁₆	30¹¹⁄₁₆	20¹³⁄₁₆	20⅞	31⅜	21¹³⁄₁₆	21	
	24	24	AHF(†)-24-(*)-(+)60-24	25⁵⁄₁₆	14⅝	16⅞	28⅞	18¾	19¼	29¹¹⁄₁₆	19¹¹⁄₁₆	19¹³⁄₁₆	30¹¹⁄₁₆	20¹³⁄₁₆	20⅞	31⅜	21¹³⁄₁₆	21	
	24	30	AHF(†)-30-(*)-(+)60-24	25⁵⁄₁₆	14⅝	16⅞	28⅞	18¾	19¼	29¹¹⁄₁₆	19¹¹⁄₁₆	19¹³⁄₁₆	30¹¹⁄₁₆	20¹³⁄₁₆	20⅞	31⅜	21¹³⁄₁₆	21	
	24	36	AHF(†)-36-(*)-(+)60-24	25⁵⁄₁₆	14⅝	16⅞	28⅞	18¾	19¼	29¹¹⁄₁₆	19¹¹⁄₁₆	19¹³⁄₁₆	30¹¹⁄₁₆	20¹³⁄₁₆	20⅞	31⅜	21¹³⁄₁₆	21	
	24	42	AHF(†)-42-(*)-(+)60-24	25⁵⁄₁₆	14⅝	16⅞	28⅞	18¾	19¼	29¹¹⁄₁₆	19¹¹⁄₁₆	19¹³⁄₁₆	30¹¹⁄₁₆	20¹³⁄₁₆	20⅞	31⅜	21¹³⁄₁₆	21	
	36	6	AHF(†)-06-(*)-(+)60-36	35¹¹⁄₁₆	20⅝	23¹³⁄₁₆	39⅝	24¾	26⅜	40¹⁄₁₆	25¹¹⁄₁₆	26¹¹⁄₁₆	41¹⁄₁₆	26¹³⁄₁₆	27⅜	41⁵⁄₁₆	27¹³⁄₁₆	27¹⁵⁄₁₆	
	36	9	AHF(†)-09-(*)-(+)60-36	35¹¹⁄₁₆	20⅝	23¹³⁄₁₆	39⅝	24¾	26⅜	40¹⁄₁₆	25¹¹⁄₁₆	26¹¹⁄₁₆	41¹⁄₁₆	26¹³⁄₁₆	27⅜	41⁵⁄₁₆	27¹³⁄₁₆	27¹⁵⁄₁₆	
	36	12	AHF(†)-12-(*)-(+)60-36	35¹¹⁄₁₆	20⅝	23¹³⁄₁₆	39⅝	24¾	26⅜	40¹⁄₁₆	25¹¹⁄₁₆	26¹¹⁄₁₆	41¹⁄₁₆	26¹³⁄₁₆	27⅜	41⁵⁄₁₆	27¹³⁄₁₆	27¹⁵⁄₁₆	
	36	18	AHF(†)-18-(*)-(+)60-36	35¹¹⁄₁₆	20⅝	23¹³⁄₁₆	39⅝	24¾	26⅜	40¹⁄₁₆	25¹¹⁄₁₆	26¹¹⁄₁₆	41¹⁄₁₆	26¹³⁄₁₆	27⅜	41⁵⁄₁₆	27¹³⁄₁₆	27¹⁵⁄₁₆	
	36	24	AHF(†)-24-(*)-(+)60-36	35¹¹⁄₁₆	20⅝	23¹³⁄₁₆	39⅝	24¾	26⅜	40¹⁄₁₆	25¹¹⁄₁₆	26¹¹⁄₁₆	41¹⁄₁₆	26¹³⁄₁₆	27⅜	41⁵⁄₁₆	27¹³⁄₁₆	27¹⁵⁄₁₆	
	36	30	AHF(†)-30-(*)-(+)60-36	35¹¹⁄₁₆	20⅝	23¹³⁄₁₆	39⅝	24¾	26⅜	40¹⁄₁₆	25¹¹⁄₁₆	26¹¹⁄₁₆	41¹⁄₁₆	26¹³⁄₁₆	27⅜	41⁵⁄₁₆	27¹³⁄₁₆	27¹⁵⁄₁₆	
	36	36	AHF(†)-36-(*)-(+)60-36	35¹¹⁄₁₆	20⅝	23¹³⁄₁₆	39⅝	24¾	26⅜	40¹⁄₁₆	25¹¹⁄₁₆	26¹¹⁄₁₆	41¹⁄₁₆	26¹³⁄₁₆	27⅜	41⁵⁄₁₆	27¹³⁄₁₆	27¹⁵⁄₁₆	
	36	42	AHF(†)-42-(*)-(+)60-36	35¹¹⁄₁₆	20⅝	23¹³⁄₁₆	39⅝	24¾	26⅜	40¹⁄₁₆	25¹¹⁄₁₆	26¹¹⁄₁₆	41¹⁄₁₆	26¹³⁄₁₆	27⅜	41⁵⁄₁₆	27¹³⁄₁₆	27¹⁵⁄₁₆	
	48	6	AHF(†)-06-(*)-(+)60-48	46¹⁄₁₆	26⅝	30¹¹⁄₁₆	49¹¹⁄₁₆	30¾	33⅛	50⁷⁄₁₆	31¹¹⁄₁₆	33⅝	51½	32¹³⁄₁₆	34⅝	52⅝	33¹³⁄₁₆	34⅞	
	48	9	AHF(†)-09-(*)-(+)60-48	46¹⁄₁₆	26⅝	30¹¹⁄₁₆	49¹¹⁄₁₆	30¾	33⅛	50⁷⁄₁₆	31¹¹⁄₁₆	33⅝	51½	32¹³⁄₁₆	34⅝	52⅝	33¹³⁄₁₆	34⅞	
	48	12	AHF(†)-12-(*)-(+)60-48	46¹⁄₁₆	26⅝	30¹¹⁄₁₆	49¹¹⁄₁₆	30¾	33⅛	50⁷⁄₁₆	31¹¹⁄₁₆	33⅝	51½	32¹³⁄₁₆	34⅝	52⅝	33¹³⁄₁₆	34⅞	
	48	18	AHF(†)-18-(*)-(+)60-48	46¹⁄₁₆	26⅝	30¹¹⁄₁₆	49¹¹⁄₁₆	30¾	33⅛	50⁷⁄₁₆	31¹¹⁄₁₆	33⅝	51½	32¹³⁄₁₆	34⅝	52⅝	33¹³⁄₁₆	34⅞	
	48	24	AHF(†)-24-(*)-(+)60-48	46¹⁄₁₆	26⅝	30¹¹⁄₁₆	49¹¹⁄₁₆	30¾	33⅛	50⁷⁄₁₆	31¹¹⁄₁₆	33⅝	51½	32¹³⁄₁₆	34⅝	52⅝	33¹³⁄₁₆	34⅞	
	48	30	AHF(†)-30-(*)-(+)60-48	46¹⁄₁₆	26⅝	30¹¹⁄₁₆	49¹¹⁄₁₆	30¾	33⅛	50⁷⁄₁₆	31¹¹⁄₁₆	33⅝	51½	32¹³⁄₁₆	34⅝	52⅝	33¹³⁄₁₆	34⅞	
	48	36	AHF(†)-36-(*)-(+)60-48	46¹⁄₁₆	26⅝	30¹¹⁄₁₆	49¹¹⁄₁₆	30¾	33⅛	50⁷⁄₁₆	31¹¹⁄₁₆	33⅝	51½	32¹³⁄₁₆	34⅝	52⅝	33¹³⁄₁₆	34⅞	
	48	42	AHF(†)-42-(*)-(+)60-48	46¹⁄₁₆	26⅝	30¹¹⁄₁₆	49¹¹⁄₁₆	30¾	33⅛	50⁷⁄₁₆	31¹¹⁄₁₆	33⅝	51½	32¹³⁄₁₆	34⅝	52⅝	33¹³⁄₁₆	34⅞	

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



Aluminum fittings

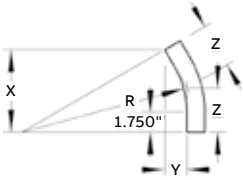
45° U-style vertical bend fittings

Selection guide

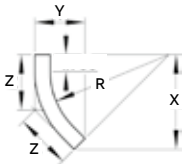
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 45°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

45° Vertical bend – U-style

Outside bend



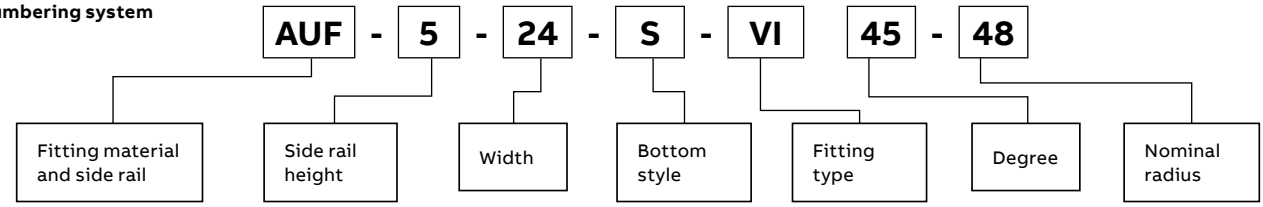
Inside bend



				Dimensions (in.)																
				(+) VO side rail			(+) VI side rail													
	Nominal			4 in. – 7 in.			4 in.			5 in.			6 in.			7 in.				
	Radius (in.)	Width (in.)	Cat. no.	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z		
	12	6	AUF(†)-06-(*)-(+)45-12	11½	4¾	6¾	14 7/16	8 15/16	8 7/16	15 1/16	9 13/16	8 13/16	15 7/8	10 15/16	9 5/16	16 9/16	12	9¾		
	12	9	AUF(†)-09-(*)-(+)45-12	11½	4¾	6¾	14 7/16	8 15/16	8 7/16	15 1/16	9 13/16	8 13/16	15 7/8	10 15/16	9 5/16	16 9/16	12	9¾		
	12	12	AUF(†)-12-(*)-(+)45-12	11½	4¾	6¾	14 7/16	8 15/16	8 7/16	15 1/16	9 13/16	8 13/16	15 7/8	10 15/16	9 5/16	16 9/16	12	9¾		
	12	18	AUF(†)-18-(*)-(+)45-12	11½	4¾	6¾	14 7/16	8 15/16	8 7/16	15 1/16	9 13/16	8 13/16	15 7/8	10 15/16	9 5/16	16 9/16	12	9¾		
	12	24	AUF(†)-24-(*)-(+)45-12	11½	4¾	6¾	14 7/16	8 15/16	8 7/16	15 1/16	9 13/16	8 13/16	15 7/8	10 15/16	9 5/16	16 9/16	12	9¾		
	12	30	AUF(†)-30-(*)-(+)45-12	11½	4¾	6¾	14 7/16	8 15/16	8 7/16	15 1/16	9 13/16	8 13/16	15 7/8	10 15/16	9 5/16	16 9/16	12	9¾		
	12	36	AUF(†)-36-(*)-(+)45-12	11½	4¾	6¾	14 7/16	8 15/16	8 7/16	15 1/16	9 13/16	8 13/16	15 7/8	10 15/16	9 5/16	16 9/16	12	9¾		
	12	42	AUF(†)-42-(*)-(+)45-12	11½	4¾	6¾	14 7/16	8 15/16	8 7/16	15 1/16	9 13/16	8 13/16	15 7/8	10 15/16	9 5/16	16 9/16	12	9¾		
	24	6	AUF(†)-06-(*)-(+)45-24	19 15/16	8¼	11 1/16	22 15/16	12 7/16	13 7/16	23 9/16	13 3/8	13 13/16	24 5/16	14 7/16	14¼	25 1/16	15½	14 11/16		
	24	9	AUF(†)-09-(*)-(+)45-24	19 15/16	8¼	11 1/16	22 15/16	12 7/16	13 7/16	23 9/16	13 3/8	13 13/16	24 5/16	14 7/16	14¼	25 1/16	15½	14 11/16		
	24	12	AUF(†)-12-(*)-(+)45-24	19 15/16	8¼	11 1/16	22 15/16	12 7/16	13 7/16	23 9/16	13 3/8	13 13/16	24 5/16	14 7/16	14¼	25 1/16	15½	14 11/16		
	24	18	AUF(†)-18-(*)-(+)45-24	19 15/16	8¼	11 1/16	22 15/16	12 7/16	13 7/16	23 9/16	13 3/8	13 13/16	24 5/16	14 7/16	14¼	25 1/16	15½	14 11/16		
	24	24	AUF(†)-24-(*)-(+)45-24	19 15/16	8¼	11 1/16	22 15/16	12 7/16	13 7/16	23 9/16	13 3/8	13 13/16	24 5/16	14 7/16	14¼	25 1/16	15½	14 11/16		
	24	30	AUF(†)-30-(*)-(+)45-24	19 15/16	8¼	11 1/16	22 15/16	12 7/16	13 7/16	23 9/16	13 3/8	13 13/16	24 5/16	14 7/16	14¼	25 1/16	15½	14 11/16		
	24	36	AUF(†)-36-(*)-(+)45-24	19 15/16	8¼	11 1/16	22 15/16	12 7/16	13 7/16	23 9/16	13 3/8	13 13/16	24 5/16	14 7/16	14¼	25 1/16	15½	14 11/16		
	24	42	AUF(†)-42-(*)-(+)45-24	19 15/16	8¼	11 1/16	22 15/16	12 7/16	13 7/16	23 9/16	13 3/8	13 13/16	24 5/16	14 7/16	14¼	25 1/16	15½	14 11/16		
	36	6	AUF(†)-06-(*)-(+)45-36	28 7/16	11 13/16	16 11/16	31 3/8	15 15/16	18 3/8	32 1/16	16 7/8	18 3/4	32 13/16	18	19¼	33 9/16	19	19 11/16		
	36	9	AUF(†)-09-(*)-(+)45-36	28 7/16	11 13/16	16 11/16	31 3/8	15 15/16	18 3/8	32 1/16	16 7/8	18 3/4	32 13/16	18	19¼	33 9/16	19	19 11/16		
	36	12	AUF(†)-12-(*)-(+)45-36	28 7/16	11 13/16	16 11/16	31 3/8	15 15/16	18 3/8	32 1/16	16 7/8	18 3/4	32 13/16	18	19¼	33 9/16	19	19 11/16		
	36	18	AUF(†)-18-(*)-(+)45-36	28 7/16	11 13/16	16 11/16	31 3/8	15 15/16	18 3/8	32 1/16	16 7/8	18 3/4	32 13/16	18	19¼	33 9/16	19	19 11/16		
	36	24	AUF(†)-24-(*)-(+)45-36	28 7/16	11 13/16	16 11/16	31 3/8	15 15/16	18 3/8	32 1/16	16 7/8	18 3/4	32 13/16	18	19¼	33 9/16	19	19 11/16		
	36	30	AUF(†)-30-(*)-(+)45-36	28 7/16	11 13/16	16 11/16	31 3/8	15 15/16	18 3/8	32 1/16	16 7/8	18 3/4	32 13/16	18	19¼	33 9/16	19	19 11/16		
	36	36	AUF(†)-36-(*)-(+)45-36	28 7/16	11 13/16	16 11/16	31 3/8	15 15/16	18 3/8	32 1/16	16 7/8	18 3/4	32 13/16	18	19¼	33 9/16	19	19 11/16		
	36	42	AUF(†)-42-(*)-(+)45-36	28 7/16	11 13/16	16 11/16	31 3/8	15 15/16	18 3/8	32 1/16	16 7/8	18 3/4	32 13/16	18	19¼	33 9/16	19	19 11/16		
	48	6	AUF(†)-06-(*)-(+)45-48	36 15/16	15 5/16	21 5/8	39 7/8	19½	23 3/8	40½	20 3/8	23¾	41 5/16	21½	24 3/16	42 1/16	22 9/16	24 5/8		
	48	9	AUF(†)-09-(*)-(+)45-48	36 15/16	15 5/16	21 5/8	39 7/8	19½	23 3/8	40½	20 3/8	23¾	41 5/16	21½	24 3/16	42 1/16	22 9/16	24 5/8		
	48	12	AUF(†)-12-(*)-(+)45-48	36 15/16	15 5/16	21 5/8	39 7/8	19½	23 3/8	40½	20 3/8	23¾	41 5/16	21½	24 3/16	42 1/16	22 9/16	24 5/8		
	48	18	AUF(†)-18-(*)-(+)45-48	36 15/16	15 5/16	21 5/8	39 7/8	19½	23 3/8	40½	20 3/8	23¾	41 5/16	21½	24 3/16	42 1/16	22 9/16	24 5/8		
	48	24	AUF(†)-24-(*)-(+)45-48	36 15/16	15 5/16	21 5/8	39 7/8	19½	23 3/8	40½	20 3/8	23¾	41 5/16	21½	24 3/16	42 1/16	22 9/16	24 5/8		
	48	30	AUF(†)-30-(*)-(+)45-48	36 15/16	15 5/16	21 5/8	39 7/8	19½	23 3/8	40½	20 3/8	23¾	41 5/16	21½	24 3/16	42 1/16	22 9/16	24 5/8		
	48	36	AUF(†)-36-(*)-(+)45-48	36 15/16	15 5/16	21 5/8	39 7/8	19½	23 3/8	40½	20 3/8	23¾	41 5/16	21½	24 3/16	42 1/16	22 9/16	24 5/8		
	48	42	AUF(†)-42-(*)-(+)45-48	36 15/16	15 5/16	21 5/8	39 7/8	19½	23 3/8	40½	20 3/8	23¾	41 5/16	21½	24 3/16	42 1/16	22 9/16	24 5/8		

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



Aluminum fittings

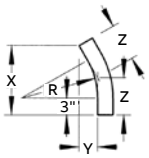
45° H-style vertical bend fittings

Selection guide

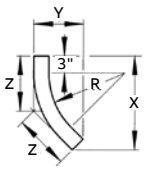
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 45°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

45° Vertical bend – H-style

Outside bend



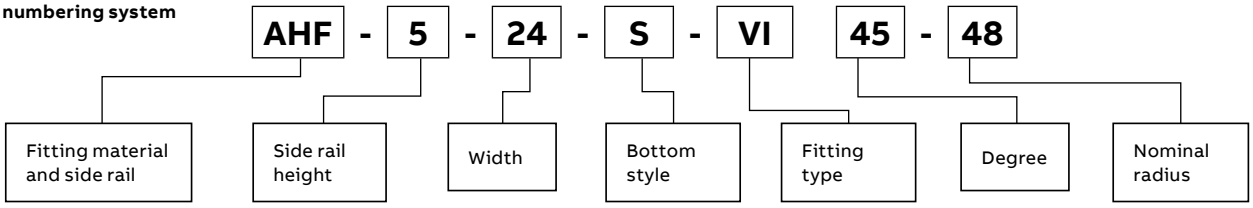
Inside bend



Nominal Radius (in.)	Width (in.)	Cat. no.	Dimensions (in.) (+) VO side rail 4 in. – 7 in. X	Y	Z	(+) VI side rail 4 in. X	Y	Z	5 in. X	Y	Z	6 in. X	Y	Z	7 in. X	Y	Z
12	6	AHF(†)-06-(*)-(+)45-12	13⅝	5⅝	8	16⁹⁄₁₆	9¹³⁄₁₆	9¹¹⁄₁₆	17³⁄₁₆	10¹¹⁄₁₆	10¹⁄₁₆	18	11⅞	10⁹⁄₁₆	18¹¹⁄₁₆	12⅞	10¹⁵⁄₁₆
12	9	AHF(†)-09-(*)-(+)45-12	13⅝	5⅝	8	16⁹⁄₁₆	9¹³⁄₁₆	9¹¹⁄₁₆	17³⁄₁₆	10¹¹⁄₁₆	10¹⁄₁₆	18	11⅞	10⁹⁄₁₆	18¹¹⁄₁₆	12⅞	10¹⁵⁄₁₆
12	12	AHF(†)-12-(*)-(+)45-12	13⅝	5⅝	8	16⁹⁄₁₆	9¹³⁄₁₆	9¹¹⁄₁₆	17³⁄₁₆	10¹¹⁄₁₆	10¹⁄₁₆	18	11⅞	10⁹⁄₁₆	18¹¹⁄₁₆	12⅞	10¹⁵⁄₁₆
12	18	AHF(†)-18-(*)-(+)45-12	13⅝	5⅝	8	16⁹⁄₁₆	9¹³⁄₁₆	9¹¹⁄₁₆	17³⁄₁₆	10¹¹⁄₁₆	10¹⁄₁₆	18	11⅞	10⁹⁄₁₆	18¹¹⁄₁₆	12⅞	10¹⁵⁄₁₆
12	24	AHF(†)-24-(*)-(+)45-12	13⅝	5⅝	8	16⁹⁄₁₆	9¹³⁄₁₆	9¹¹⁄₁₆	17³⁄₁₆	10¹¹⁄₁₆	10¹⁄₁₆	18	11⅞	10⁹⁄₁₆	18¹¹⁄₁₆	12⅞	10¹⁵⁄₁₆
12	30	AHF(†)-30-(*)-(+)45-12	13⅝	5⅝	8	16⁹⁄₁₆	9¹³⁄₁₆	9¹¹⁄₁₆	17³⁄₁₆	10¹¹⁄₁₆	10¹⁄₁₆	18	11⅞	10⁹⁄₁₆	18¹¹⁄₁₆	12⅞	10¹⁵⁄₁₆
12	36	AHF(†)-36-(*)-(+)45-12	13⅝	5⅝	8	16⁹⁄₁₆	9¹³⁄₁₆	9¹¹⁄₁₆	17³⁄₁₆	10¹¹⁄₁₆	10¹⁄₁₆	18	11⅞	10⁹⁄₁₆	18¹¹⁄₁₆	12⅞	10¹⁵⁄₁₆
12	42	AHF(†)-42-(*)-(+)45-12	13⅝	5⅝	8	16⁹⁄₁₆	9¹³⁄₁₆	9¹¹⁄₁₆	17³⁄₁₆	10¹¹⁄₁₆	10¹⁄₁₆	18	11⅞	10⁹⁄₁₆	18¹¹⁄₁₆	12⅞	10¹⁵⁄₁₆
24	6	AHF(†)-06-(*)-(+)45-24	22¹⁄₁₆	9⅛	12¹⁵⁄₁₆	25¹⁄₁₆	13⁵⁄₁₆	14¹¹⁄₁₆	25¹¹⁄₁₆	14¼	15¹⁄₁₆	26½	15⅜	15½	27³⁄₁₆	16⅜	15¹⁵⁄₁₆
24	9	AHF(†)-09-(*)-(+)45-24	22¹⁄₁₆	9⅛	12¹⁵⁄₁₆	25¹⁄₁₆	13⁵⁄₁₆	14¹¹⁄₁₆	25¹¹⁄₁₆	14¼	15¹⁄₁₆	26½	15⅜	15½	27³⁄₁₆	16⅜	15¹⁵⁄₁₆
24	12	AHF(†)-12-(*)-(+)45-24	22¹⁄₁₆	9⅛	12¹⁵⁄₁₆	25¹⁄₁₆	13⁵⁄₁₆	14¹¹⁄₁₆	25¹¹⁄₁₆	14¼	15¹⁄₁₆	26½	15⅜	15½	27³⁄₁₆	16⅜	15¹⁵⁄₁₆
24	18	AHF(†)-18-(*)-(+)45-24	22¹⁄₁₆	9⅛	12¹⁵⁄₁₆	25¹⁄₁₆	13⁵⁄₁₆	14¹¹⁄₁₆	25¹¹⁄₁₆	14¼	15¹⁄₁₆	26½	15⅜	15½	27³⁄₁₆	16⅜	15¹⁵⁄₁₆
24	24	AHF(†)-24-(*)-(+)45-24	22¹⁄₁₆	9⅛	12¹⁵⁄₁₆	25¹⁄₁₆	13⁵⁄₁₆	14¹¹⁄₁₆	25¹¹⁄₁₆	14¼	15¹⁄₁₆	26½	15⅜	15½	27³⁄₁₆	16⅜	15¹⁵⁄₁₆
24	30	AHF(†)-30-(*)-(+)45-24	22¹⁄₁₆	9⅛	12¹⁵⁄₁₆	25¹⁄₁₆	13⁵⁄₁₆	14¹¹⁄₁₆	25¹¹⁄₁₆	14¼	15¹⁄₁₆	26½	15⅜	15½	27³⁄₁₆	16⅜	15¹⁵⁄₁₆
24	36	AHF(†)-36-(*)-(+)45-24	22¹⁄₁₆	9⅛	12¹⁵⁄₁₆	25¹⁄₁₆	13⁵⁄₁₆	14¹¹⁄₁₆	25¹¹⁄₁₆	14¼	15¹⁄₁₆	26½	15⅜	15½	27³⁄₁₆	16⅜	15¹⁵⁄₁₆
24	42	AHF(†)-42-(*)-(+)45-24	22¹⁄₁₆	9⅛	12¹⁵⁄₁₆	25¹⁄₁₆	13⁵⁄₁₆	14¹¹⁄₁₆	25¹¹⁄₁₆	14¼	15¹⁄₁₆	26½	15⅜	15½	27³⁄₁₆	16⅜	15¹⁵⁄₁₆
36	6	AHF(†)-06-(*)-(+)45-36	30⁹⁄₁₆	12¹¹⁄₁₆	17¹⁵⁄₁₆	33½	16¹³⁄₁₆	19⅝	34³⁄₁₆	17¾	20	35	18⅞	20½	35¹¹⁄₁₆	19⅞	20⅞
36	9	AHF(†)-09-(*)-(+)45-36	30⁹⁄₁₆	12¹¹⁄₁₆	17¹⁵⁄₁₆	33½	16¹³⁄₁₆	19⅝	34³⁄₁₆	17¾	20	35	18⅞	20½	35¹¹⁄₁₆	19⅞	20⅞
36	12	AHF(†)-12-(*)-(+)45-36	30⁹⁄₁₆	12¹¹⁄₁₆	17¹⁵⁄₁₆	33½	16¹³⁄₁₆	19⅝	34³⁄₁₆	17¾	20	35	18⅞	20½	35¹¹⁄₁₆	19⅞	20⅞
36	18	AHF(†)-18-(*)-(+)45-36	30⁹⁄₁₆	12¹¹⁄₁₆	17¹⁵⁄₁₆	33½	16¹³⁄₁₆	19⅝	34³⁄₁₆	17¾	20	35	18⅞	20½	35¹¹⁄₁₆	19⅞	20⅞
36	24	AHF(†)-24-(*)-(+)45-36	30⁹⁄₁₆	12¹¹⁄₁₆	17¹⁵⁄₁₆	33½	16¹³⁄₁₆	19⅝	34³⁄₁₆	17¾	20	35	18⅞	20½	35¹¹⁄₁₆	19⅞	20⅞
36	30	AHF(†)-30-(*)-(+)45-36	30⁹⁄₁₆	12¹¹⁄₁₆	17¹⁵⁄₁₆	33½	16¹³⁄₁₆	19⅝	34³⁄₁₆	17¾	20	35	18⅞	20½	35¹¹⁄₁₆	19⅞	20⅞
36	36	AHF(†)-36-(*)-(+)45-36	30⁹⁄₁₆	12¹¹⁄₁₆	17¹⁵⁄₁₆	33½	16¹³⁄₁₆	19⅝	34³⁄₁₆	17¾	20	35	18⅞	20½	35¹¹⁄₁₆	19⅞	20⅞
36	42	AHF(†)-42-(*)-(+)45-36	30⁹⁄₁₆	12¹¹⁄₁₆	17¹⁵⁄₁₆	33½	16¹³⁄₁₆	19⅝	34³⁄₁₆	17¾	20	35	18⅞	20½	35¹¹⁄₁₆	19⅞	20⅞
48	6	AHF(†)-06-(*)-(+)45-48	39¹⁄₁₆	16³⁄₁₆	22⅞	42	20⅜	24⅝	42⅝	21¼	25	43½	22⁷⁄₁₆	25⁷⁄₁₆	44³⁄₁₆	23⅜	25⅞
48	9	AHF(†)-09-(*)-(+)45-48	39¹⁄₁₆	16³⁄₁₆	22⅞	42	20⅜	24⅝	42⅝	21¼	25	43½	22⁷⁄₁₆	25⁷⁄₁₆	44³⁄₁₆	23⅜	25⅞
48	12	AHF(†)-12-(*)-(+)45-48	39¹⁄₁₆	16³⁄₁₆	22⅞	42	20⅜	24⅝	42⅝	21¼	25	43½	22⁷⁄₁₆	25⁷⁄₁₆	44³⁄₁₆	23⅜	25⅞
48	18	AHF(†)-18-(*)-(+)45-48	39¹⁄₁₆	16³⁄₁₆	22⅞	42	20⅜	24⅝	42⅝	21¼	25	43½	22⁷⁄₁₆	25⁷⁄₁₆	44³⁄₁₆	23⅜	25⅞
48	24	AHF(†)-24-(*)-(+)45-48	39¹⁄₁₆	16³⁄₁₆	22⅞	42	20⅜	24⅝	42⅝	21¼	25	43½	22⁷⁄₁₆	25⁷⁄₁₆	44³⁄₁₆	23⅜	25⅞
48	30	AHF(†)-30-(*)-(+)45-48	39¹⁄₁₆	16³⁄₁₆	22⅞	42	20⅜	24⅝	42⅝	21¼	25	43½	22⁷⁄₁₆	25⁷⁄₁₆	44³⁄₁₆	23⅜	25⅞
48	36	AHF(†)-36-(*)-(+)45-48	39¹⁄₁₆	16³⁄₁₆	22⅞	42	20⅜	24⅝	42⅝	21¼	25	43½	22⁷⁄₁₆	25⁷⁄₁₆	44³⁄₁₆	23⅜	25⅞
48	42	AHF(†)-42-(*)-(+)45-48	39¹⁄₁₆	16³⁄₁₆	22⅞	42	20⅜	24⅝	42⅝	21¼	25	43½	22⁷⁄₁₆	25⁷⁄₁₆	44³⁄₁₆	23⅜	25⅞

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



Aluminum fittings

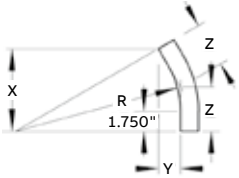
30° U-style vertical bend fittings

Selection guide

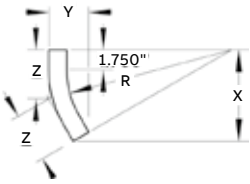
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 30°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

30° Vertical bend – U-style

Outside bend



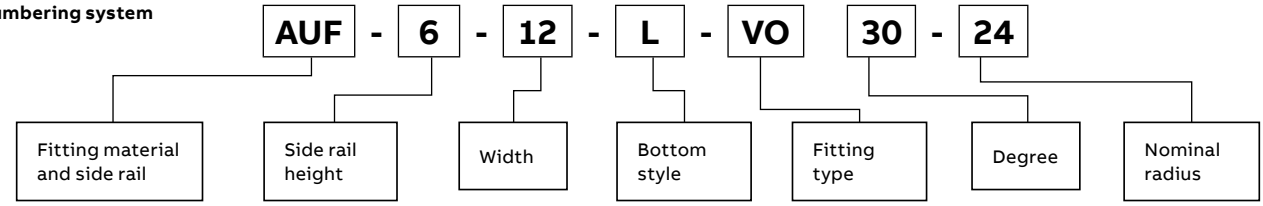
Inside bend



	Nominal			Dimensions (in.)																
				(+) VO side rail			(+) VI side rail													
				4 in. – 7 in.			4 in.			5 in.			6 in.			7 in.				
	Radius (in.)	Width (in.)	Cat. no.	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z		
	12	6	AUF(†)-06-(*)-(+)30-12	9¼	2½	4¹⁵⁄₁₆	11⅜	6¹¹⁄₁₆	6¹⁄₁₆	11¹³⁄₁₆	7⁹⁄₁₆	6⁵⁄₁₆	12⅜	8¹¹⁄₁₆	6⅝	12⅞	9¾	6⅞		
	12	9	AUF(†)-09-(*)-(+)30-12	9¼	2½	4¹⁵⁄₁₆	11⅜	6¹¹⁄₁₆	6¹⁄₁₆	11¹³⁄₁₆	7⁹⁄₁₆	6⁵⁄₁₆	12⅜	8¹¹⁄₁₆	6⅝	12⅞	9¾	6⅞		
	12	12	AUF(†)-12-(*)-(+)30-12	9¼	2½	4¹⁵⁄₁₆	11⅜	6¹¹⁄₁₆	6¹⁄₁₆	11¹³⁄₁₆	7⁹⁄₁₆	6⁵⁄₁₆	12⅜	8¹¹⁄₁₆	6⅝	12⅞	9¾	6⅞		
	12	18	AUF(†)-18-(*)-(+)30-12	9¼	2½	4¹⁵⁄₁₆	11⅜	6¹¹⁄₁₆	6¹⁄₁₆	11¹³⁄₁₆	7⁹⁄₁₆	6⁵⁄₁₆	12⅜	8¹¹⁄₁₆	6⅝	12⅞	9¾	6⅞		
	12	24	AUF(†)-24-(*)-(+)30-12	9¼	2½	4¹⁵⁄₁₆	11⅜	6¹¹⁄₁₆	6¹⁄₁₆	11¹³⁄₁₆	7⁹⁄₁₆	6⁵⁄₁₆	12⅜	8¹¹⁄₁₆	6⅝	12⅞	9¾	6⅞		
	12	30	AUF(†)-30-(*)-(+)30-12	9¼	2½	4¹⁵⁄₁₆	11⅜	6¹¹⁄₁₆	6¹⁄₁₆	11¹³⁄₁₆	7⁹⁄₁₆	6⁵⁄₁₆	12⅜	8¹¹⁄₁₆	6⅝	12⅞	9¾	6⅞		
	12	36	AUF(†)-36-(*)-(+)30-12	9¼	2½	4¹⁵⁄₁₆	11⅜	6¹¹⁄₁₆	6¹⁄₁₆	11¹³⁄₁₆	7⁹⁄₁₆	6⁵⁄₁₆	12⅜	8¹¹⁄₁₆	6⅝	12⅞	9¾	6⅞		
	12	42	AUF(†)-42-(*)-(+)30-12	9¼	2½	4¹⁵⁄₁₆	11⅜	6¹¹⁄₁₆	6¹⁄₁₆	11¹³⁄₁₆	7⁹⁄₁₆	6⁵⁄₁₆	12⅜	8¹¹⁄₁₆	6⅝	12⅞	9¾	6⅞		
	24	6	AUF(†)-06-(*)-(+)30-24	15¼	4¹⁄₁₆	8³⁄₁₆	17⅜	8¼	9⁵⁄₁₆	17¹³⁄₁₆	9³⁄₁₆	9⁹⁄₁₆	18⅜	10¼	9¹³⁄₁₆	18⅞	11⁵⁄₁₆	10⅛		
	24	9	AUF(†)-09-(*)-(+)30-24	15¼	4¹⁄₁₆	8³⁄₁₆	17⅜	8¼	9⁵⁄₁₆	17¹³⁄₁₆	9³⁄₁₆	9⁹⁄₁₆	18⅜	10¼	9¹³⁄₁₆	18⅞	11⁵⁄₁₆	10⅛		
	24	12	AUF(†)-12-(*)-(+)30-24	15¼	4¹⁄₁₆	8³⁄₁₆	17⅜	8¼	9⁵⁄₁₆	17¹³⁄₁₆	9³⁄₁₆	9⁹⁄₁₆	18⅜	10¼	9¹³⁄₁₆	18⅞	11⁵⁄₁₆	10⅛		
	24	18	AUF(†)-18-(*)-(+)30-24	15¼	4¹⁄₁₆	8³⁄₁₆	17⅜	8¼	9⁵⁄₁₆	17¹³⁄₁₆	9³⁄₁₆	9⁹⁄₁₆	18⅜	10¼	9¹³⁄₁₆	18⅞	11⁵⁄₁₆	10⅛		
	24	24	AUF(†)-24-(*)-(+)30-24	15¼	4¹⁄₁₆	8³⁄₁₆	17⅜	8¼	9⁵⁄₁₆	17¹³⁄₁₆	9³⁄₁₆	9⁹⁄₁₆	18⅜	10¼	9¹³⁄₁₆	18⅞	11⁵⁄₁₆	10⅛		
	24	30	AUF(†)-30-(*)-(+)30-24	15¼	4¹⁄₁₆	8³⁄₁₆	17⅜	8¼	9⁵⁄₁₆	17¹³⁄₁₆	9³⁄₁₆	9⁹⁄₁₆	18⅜	10¼	9¹³⁄₁₆	18⅞	11⁵⁄₁₆	10⅛		
	24	36	AUF(†)-36-(*)-(+)30-24	15¼	4¹⁄₁₆	8³⁄₁₆	17⅜	8¼	9⁵⁄₁₆	17¹³⁄₁₆	9³⁄₁₆	9⁹⁄₁₆	18⅜	10¼	9¹³⁄₁₆	18⅞	11⁵⁄₁₆	10⅛		
	24	42	AUF(†)-42-(*)-(+)30-24	15¼	4¹⁄₁₆	8³⁄₁₆	17⅜	8¼	9⁵⁄₁₆	17¹³⁄₁₆	9³⁄₁₆	9⁹⁄₁₆	18⅜	10¼	9¹³⁄₁₆	18⅞	11⁵⁄₁₆	10⅛		
	36	6	AUF(†)-06-(*)-(+)30-36	21¼	5¹¹⁄₁₆	11⅜	23⅜	9⅞	12½	23¹³⁄₁₆	10¾	12¾	24⅜	11⅞	13¹⁄₁₆	24⅞	12¹⁵⁄₁₆	13⁵⁄₁₆		
	36	9	AUF(†)-09-(*)-(+)30-36	21¼	5¹¹⁄₁₆	11⅜	23⅜	9⅞	12½	23¹³⁄₁₆	10¾	12¾	24⅜	11⅞	13¹⁄₁₆	24⅞	12¹⁵⁄₁₆	13⁵⁄₁₆		
	36	12	AUF(†)-12-(*)-(+)30-36	21¼	5¹¹⁄₁₆	11⅜	23⅜	9⅞	12½	23¹³⁄₁₆	10¾	12¾	24⅜	11⅞	13¹⁄₁₆	24⅞	12¹⁵⁄₁₆	13⁵⁄₁₆		
	36	18	AUF(†)-18-(*)-(+)30-36	21¼	5¹¹⁄₁₆	11⅜	23⅜	9⅞	12½	23¹³⁄₁₆	10¾	12¾	24⅜	11⅞	13¹⁄₁₆	24⅞	12¹⁵⁄₁₆	13⁵⁄₁₆		
	36	24	AUF(†)-24-(*)-(+)30-36	21¼	5¹¹⁄₁₆	11⅜	23⅜	9⅞	12½	23¹³⁄₁₆	10¾	12¾	24⅜	11⅞	13¹⁄₁₆	24⅞	12¹⁵⁄₁₆	13⁵⁄₁₆		
	36	30	AUF(†)-30-(*)-(+)30-36	21¼	5¹¹⁄₁₆	11⅜	23⅜	9⅞	12½	23¹³⁄₁₆	10¾	12¾	24⅜	11⅞	13¹⁄₁₆	24⅞	12¹⁵⁄₁₆	13⁵⁄₁₆		
	36	36	AUF(†)-36-(*)-(+)30-36	21¼	5¹¹⁄₁₆	11⅜	23⅜	9⅞	12½	23¹³⁄₁₆	10¾	12¾	24⅜	11⅞	13¹⁄₁₆	24⅞	12¹⁵⁄₁₆	13⁵⁄₁₆		
	36	42	AUF(†)-42-(*)-(+)30-36	21¼	5¹¹⁄₁₆	11⅜	23⅜	9⅞	12½	23¹³⁄₁₆	10¾	12¾	24⅜	11⅞	13¹⁄₁₆	24⅞	12¹⁵⁄₁₆	13⁵⁄₁₆		
	48	6	AUF(†)-06-(*)-(+)30-48	21¼	7⁵⁄₁₆	14⅝	29⅜	11½	15¾	29¹³⁄₁₆	12⅜	16	30⅜	13½	16¼	30⅞	14⁹⁄₁₆	16⁹⁄₁₆		
	48	9	AUF(†)-09-(*)-(+)30-48	21¼	7⁵⁄₁₆	14⅝	29⅜	11½	15¾	29¹³⁄₁₆	12⅜	16	30⅜	13½	16¼	30⅞	14⁹⁄₁₆	16⁹⁄₁₆		
	48	12	AUF(†)-12-(*)-(+)30-48	21¼	7⁵⁄₁₆	14⅝	29⅜	11½	15¾	29¹³⁄₁₆	12⅜	16	30⅜	13½	16¼	30⅞	14⁹⁄₁₆	16⁹⁄₁₆		
	48	18	AUF(†)-18-(*)-(+)30-48	21¼	7⁵⁄₁₆	14⅝	29⅜	11½	15¾	29¹³⁄₁₆	12⅜	16	30⅜	13½	16¼	30⅞	14⁹⁄₁₆	16⁹⁄₁₆		
	48	24	AUF(†)-24-(*)-(+)30-48	21¼	7⁵⁄₁₆	14⅝	29⅜	11½	15¾	29¹³⁄₁₆	12⅜	16	30⅜	13½	16¼	30⅞	14⁹⁄₁₆	16⁹⁄₁₆		
	48	30	AUF(†)-30-(*)-(+)30-48	21¼	7⁵⁄₁₆	14⅝	29⅜	11½	15¾	29¹³⁄₁₆	12⅜	16	30⅜	13½	16¼	30⅞	14⁹⁄₁₆	16⁹⁄₁₆		
	48	36	AUF(†)-36-(*)-(+)30-48	21¼	7⁵⁄₁₆	14⅝	29⅜	11½	15¾	29¹³⁄₁₆	12⅜	16	30⅜	13½	16¼	30⅞	14⁹⁄₁₆	16⁹⁄₁₆		
	48	42	AUF(†)-42-(*)-(+)30-48	21¼	7⁵⁄₁₆	14⅝	29⅜	11½	15¾	29¹³⁄₁₆	12⅜	16	30⅜	13½	16¼	30⅞	14⁹⁄₁₆	16⁹⁄₁₆		

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



Aluminum fittings

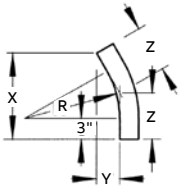
30° H-style vertical bend fittings

Selection guide

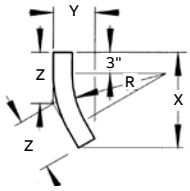
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 30°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

30° Vertical bend – H-style

Outside bend



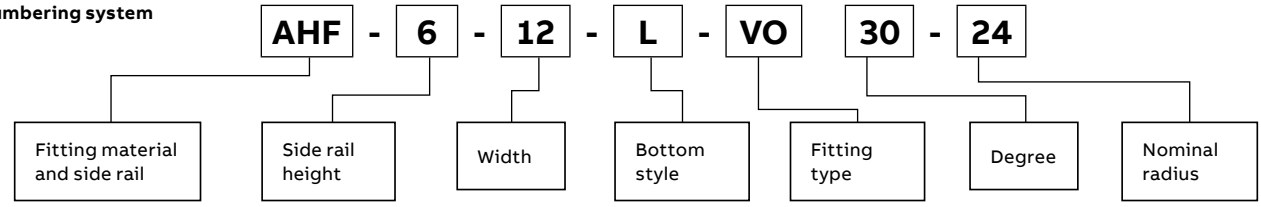
Inside bend



				Dimensions (in.)															
				(+) VO side rail															(+) VI side rail
	Nominal			4 in. – 7 in.			4 in.			5 in.			6 in.			7 in.			
	Radius (in.)	Width (in.)	Cat. no.	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
	12	6	AHF(†)-06-(*)-(+)30-12	11⅝	3⅛	6⅜16	13¹¹⁄16	7⅝16	7⅝16	14⅛	8⅜16	7⅝16	14¹¹⁄16	9⅜	7⅞	13¹¹⁄16	10⅝16	8⅛
	12	9	AHF(†)-09-(*)-(+)30-12	11⅝	3⅛	6⅜16	13¹¹⁄16	7⅝16	7⅝16	14⅛	8⅜16	7⅝16	14¹¹⁄16	9⅜	7⅞	13¹¹⁄16	10⅝16	8⅛
	12	12	AHF(†)-12-(*)-(+)30-12	11⅝	3⅛	6⅜16	13¹¹⁄16	7⅝16	7⅝16	14⅛	8⅜16	7⅝16	14¹¹⁄16	9⅜	7⅞	13¹¹⁄16	10⅝16	8⅛
	12	18	AHF(†)-18-(*)-(+)30-12	11⅝	3⅛	6⅜16	13¹¹⁄16	7⅝16	7⅝16	14⅛	8⅜16	7⅝16	14¹¹⁄16	9⅜	7⅞	13¹¹⁄16	10⅝16	8⅛
	12	24	AHF(†)-24-(*)-(+)30-12	11⅝	3⅛	6⅜16	13¹¹⁄16	7⅝16	7⅝16	14⅛	8⅜16	7⅝16	14¹¹⁄16	9⅜	7⅞	13¹¹⁄16	10⅝16	8⅛
	12	30	AHF(†)-30-(*)-(+)30-12	11⅝	3⅛	6⅜16	13¹¹⁄16	7⅝16	7⅝16	14⅛	8⅜16	7⅝16	14¹¹⁄16	9⅜	7⅞	13¹¹⁄16	10⅝16	8⅛
	12	36	AHF(†)-36-(*)-(+)30-12	11⅝	3⅛	6⅜16	13¹¹⁄16	7⅝16	7⅝16	14⅛	8⅜16	7⅝16	14¹¹⁄16	9⅜	7⅞	13¹¹⁄16	10⅝16	8⅛
	12	42	AHF(†)-42-(*)-(+)30-12	11⅝	3⅛	6⅜16	13¹¹⁄16	7⅝16	7⅝16	14⅛	8⅜16	7⅝16	14¹¹⁄16	9⅜	7⅞	13¹¹⁄16	10⅝16	8⅛
	24	6	AHF(†)-06-(*)-(+)30-24	17⅝	4¹¹⁄16	9⅞16	19¹¹⁄16	8⅞	10⅜16	20⅛	9¹³⁄16	10¹³⁄16	20¹¹⁄16	10¹⁵⁄16	11⅛	19¹¹⁄16	11⅝16	11⅜
	24	9	AHF(†)-09-(*)-(+)30-24	17⅝	4¹¹⁄16	9⅞16	19¹¹⁄16	8⅞	10⅜16	20⅛	9¹³⁄16	10¹³⁄16	20¹¹⁄16	10¹⁵⁄16	11⅛	19¹¹⁄16	11⅝16	11⅜
	24	12	AHF(†)-12-(*)-(+)30-24	17⅝	4¹¹⁄16	9⅞16	19¹¹⁄16	8⅞	10⅜16	20⅛	9¹³⁄16	10¹³⁄16	20¹¹⁄16	10¹⁵⁄16	11⅛	19¹¹⁄16	11⅝16	11⅜
	24	18	AHF(†)-18-(*)-(+)30-24	17⅝	4¹¹⁄16	9⅞16	19¹¹⁄16	8⅞	10⅜16	20⅛	9¹³⁄16	10¹³⁄16	20¹¹⁄16	10¹⁵⁄16	11⅛	19¹¹⁄16	11⅝16	11⅜
	24	24	AHF(†)-24-(*)-(+)30-24	17⅝	4¹¹⁄16	9⅞16	19¹¹⁄16	8⅞	10⅜16	20⅛	9¹³⁄16	10¹³⁄16	20¹¹⁄16	10¹⁵⁄16	11⅛	19¹¹⁄16	11⅝16	11⅜
	24	30	AHF(†)-30-(*)-(+)30-24	17⅝	4¹¹⁄16	9⅞16	19¹¹⁄16	8⅞	10⅜16	20⅛	9¹³⁄16	10¹³⁄16	20¹¹⁄16	10¹⁵⁄16	11⅛	19¹¹⁄16	11⅝16	11⅜
	24	36	AHF(†)-36-(*)-(+)30-24	17⅝	4¹¹⁄16	9⅞16	19¹¹⁄16	8⅞	10⅜16	20⅛	9¹³⁄16	10¹³⁄16	20¹¹⁄16	10¹⁵⁄16	11⅛	19¹¹⁄16	11⅝16	11⅜
	24	42	AHF(†)-42-(*)-(+)30-24	17⅝	4¹¹⁄16	9⅞16	19¹¹⁄16	8⅞	10⅜16	20⅛	9¹³⁄16	10¹³⁄16	20¹¹⁄16	10¹⁵⁄16	11⅛	19¹¹⁄16	11⅝16	11⅜
	36	6	AHF(†)-06-(*)-(+)30-36	23⅝	6⅝16	12⅝	25¹¹⁄16	10½	13⅝	26⅛	11⅜	14	26¹¹⁄16	12⅜16	14⅝16	25¹¹⁄16	13⅜16	14⅜16
	36	9	AHF(†)-09-(*)-(+)30-36	23⅝	6⅝16	12⅝	25¹¹⁄16	10½	13⅝	26⅛	11⅜	14	26¹¹⁄16	12⅜16	14⅝16	25¹¹⁄16	13⅜16	14⅜16
	36	12	AHF(†)-12-(*)-(+)30-36	23⅝	6⅝16	12⅝	25¹¹⁄16	10½	13⅝	26⅛	11⅜	14	26¹¹⁄16	12⅜16	14⅝16	25¹¹⁄16	13⅜16	14⅜16
	36	18	AHF(†)-18-(*)-(+)30-36	23⅝	6⅝16	12⅝	25¹¹⁄16	10½	13⅝	26⅛	11⅜	14	26¹¹⁄16	12⅜16	14⅝16	25¹¹⁄16	13⅜16	14⅜16
	36	24	AHF(†)-24-(*)-(+)30-36	23⅝	6⅝16	12⅝	25¹¹⁄16	10½	13⅝	26⅛	11⅜	14	26¹¹⁄16	12⅜16	14⅝16	25¹¹⁄16	13⅜16	14⅜16
	36	30	AHF(†)-30-(*)-(+)30-36	23⅝	6⅝16	12⅝	25¹¹⁄16	10½	13⅝	26⅛	11⅜	14	26¹¹⁄16	12⅜16	14⅝16	25¹¹⁄16	13⅜16	14⅜16
	36	36	AHF(†)-36-(*)-(+)30-36	23⅝	6⅝16	12⅝	25¹¹⁄16	10½	13⅝	26⅛	11⅜	14	26¹¹⁄16	12⅜16	14⅝16	25¹¹⁄16	13⅜16	14⅜16
	36	42	AHF(†)-42-(*)-(+)30-36	23⅝	6⅝16	12⅝	25¹¹⁄16	10½	13⅝	26⅛	11⅜	14	26¹¹⁄16	12⅜16	14⅝16	25¹¹⁄16	13⅜16	14⅜16
	48	6	AHF(†)-06-(*)-(+)30-48	29⅝	7¹⁵⁄16	15⅞	31¹¹⁄16	12⅛	17	32⅛	13	17¼	32¹¹⁄16	14⅜16	17⅝16	31¹¹⁄16	15⅛	17¹³⁄16
	48	9	AHF(†)-09-(*)-(+)30-48	29⅝	7¹⁵⁄16	15⅞	31¹¹⁄16	12⅛	17	32⅛	13	17¼	32¹¹⁄16	14⅜16	17⅝16	31¹¹⁄16	15⅛	17¹³⁄16
	48	12	AHF(†)-12-(*)-(+)30-48	29⅝	7¹⁵⁄16	15⅞	31¹¹⁄16	12⅛	17	32⅛	13	17¼	32¹¹⁄16	14⅜16	17⅝16	31¹¹⁄16	15⅛	17¹³⁄16
	48	18	AHF(†)-18-(*)-(+)30-48	29⅝	7¹⁵⁄16	15⅞	31¹¹⁄16	12⅛	17	32⅛	13	17¼	32¹¹⁄16	14⅜16	17⅝16	31¹¹⁄16	15⅛	17¹³⁄16
	48	24	AHF(†)-24-(*)-(+)30-48	29⅝	7¹⁵⁄16	15⅞	31¹¹⁄16	12⅛	17	32⅛	13	17¼	32¹¹⁄16	14⅜16	17⅝16	31¹¹⁄16	15⅛	17¹³⁄16
	48	30	AHF(†)-30-(*)-(+)30-48	29⅝	7¹⁵⁄16	15⅞	31¹¹⁄16	12⅛	17	32⅛	13	17¼	32¹¹⁄16	14⅜16	17⅝16	31¹¹⁄16	15⅛	17¹³⁄16
	48	36	AHF(†)-36-(*)-(+)30-48	29⅝	7¹⁵⁄16	15⅞	31¹¹⁄16	12⅛	17	32⅛	13	17¼	32¹¹⁄16	14⅜16	17⅝16	31¹¹⁄16	15⅛	17¹³⁄16
	48	42	AHF(†)-42-(*)-(+)30-48	29⅝	7¹⁵⁄16	15⅞	31¹¹⁄16	12⅛	17	32⅛	13	17¼	32¹¹⁄16	14⅜16	17⅝16	31¹¹⁄16	15⅛	17¹³⁄16

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



Aluminum fittings

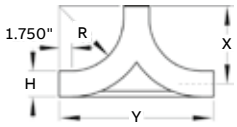
U-style vertical tee up/down fittings

Selection guide

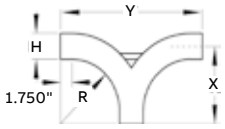
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

Vertical tee up/down – U-style

Up



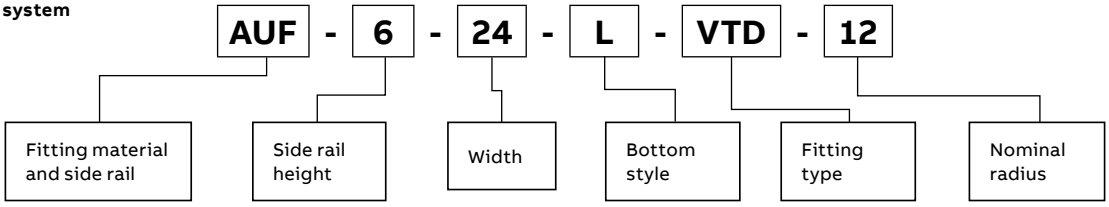
Down



Nominal Radius (in.)	Nominal Width (in.)	Vertical tee up Cat. no.	Vertical tee down Cat. no.	Dimensions (in.) Side rail height "H" 4 in. X	4 in. Y	5 in. X	5 in. Y	6 in. X	6 in. Y	7 in. X	7 in. Y
12	6	AUF(†)-06-(*)-VTU12	AUF(†)-06-(*)-VTD12	15 13/16	31 11/16	16 5/16	32 9/16	16 7/8	33 3/4	17 3/8	34 3/4
12	9	AUF(†)-09-(*)-VTU12	AUF(†)-09-(*)-VTD12	15 13/16	31 11/16	16 5/16	32 9/16	16 7/8	33 3/4	17 3/8	34 3/4
12	12	AUF(†)-12-(*)-VTU12	AUF(†)-12-(*)-VTD12	15 13/16	31 11/16	16 5/16	32 9/16	16 7/8	33 3/4	17 3/8	34 3/4
12	18	AUF(†)-18-(*)-VTU12	AUF(†)-18-(*)-VTD12	15 13/16	31 11/16	16 5/16	32 9/16	16 7/8	33 3/4	17 3/8	34 3/4
12	24	AUF(†)-24-(*)-VTU12	AUF(†)-24-(*)-VTD12	15 13/16	31 11/16	16 5/16	32 9/16	16 7/8	33 3/4	17 3/8	34 3/4
12	30	AUF(†)-30-(*)-VTU12	AUF(†)-30-(*)-VTD12	15 13/16	31 11/16	16 5/16	32 9/16	16 7/8	33 3/4	17 3/8	34 3/4
12	36	AUF(†)-36-(*)-VTU12	AUF(†)-36-(*)-VTD12	15 13/16	31 11/16	16 5/16	32 9/16	16 7/8	33 3/4	17 3/8	34 3/4
12	42	AUF(†)-42-(*)-VTU12	AUF(†)-42-(*)-VTD12	15 13/16	31 11/16	16 5/16	32 9/16	16 7/8	33 3/4	17 3/8	34 3/4
24	6	AUF(†)-06-(*)-VTU24	AUF(†)-06-(*)-VTD24	27 13/16	55 11/16	28 5/16	56 9/16	28 7/8	57 3/4	29 3/8	58 3/4
24	9	AUF(†)-09-(*)-VTU24	AUF(†)-09-(*)-VTD24	27 13/16	55 11/16	28 5/16	56 9/16	28 7/8	57 3/4	29 3/8	58 3/4
24	12	AUF(†)-12-(*)-VTU24	AUF(†)-12-(*)-VTD24	27 13/16	55 11/16	28 5/16	56 9/16	28 7/8	57 3/4	29 3/8	58 3/4
24	18	AUF(†)-18-(*)-VTU24	AUF(†)-18-(*)-VTD24	27 13/16	55 11/16	28 5/16	56 9/16	28 7/8	57 3/4	29 3/8	58 3/4
24	24	AUF(†)-24-(*)-VTU24	AUF(†)-24-(*)-VTD24	27 13/16	55 11/16	28 5/16	56 9/16	28 7/8	57 3/4	29 3/8	58 3/4
24	30	AUF(†)-30-(*)-VTU24	AUF(†)-30-(*)-VTD24	27 13/16	55 11/16	28 5/16	56 9/16	28 7/8	57 3/4	29 3/8	58 3/4
24	36	AUF(†)-36-(*)-VTU24	AUF(†)-36-(*)-VTD24	27 13/16	55 11/16	28 5/16	56 9/16	28 7/8	57 3/4	29 3/8	58 3/4
24	42	AUF(†)-42-(*)-VTU24	AUF(†)-42-(*)-VTD24	27 13/16	55 11/16	28 5/16	56 9/16	28 7/8	57 3/4	29 3/8	58 3/4
36	6	AUF(†)-06-(*)-VTU36	AUF(†)-06-(*)-VTD36	39 13/16	79 11/16	40 5/16	80 9/16	40 7/8	81 3/4	41 3/8	82 3/4
36	9	AUF(†)-09-(*)-VTU36	AUF(†)-09-(*)-VTD36	39 13/16	79 11/16	40 5/16	80 9/16	40 7/8	81 3/4	41 3/8	82 3/4
36	12	AUF(†)-12-(*)-VTU36	AUF(†)-12-(*)-VTD36	39 13/16	79 11/16	40 5/16	80 9/16	40 7/8	81 3/4	41 3/8	82 3/4
36	18	AUF(†)-18-(*)-VTU36	AUF(†)-18-(*)-VTD36	39 13/16	79 11/16	40 5/16	80 9/16	40 7/8	81 3/4	41 3/8	82 3/4
36	24	AUF(†)-24-(*)-VTU36	AUF(†)-24-(*)-VTD36	39 13/16	79 11/16	40 5/16	80 9/16	40 7/8	81 3/4	41 3/8	82 3/4
36	30	AUF(†)-30-(*)-VTU36	AUF(†)-30-(*)-VTD36	39 13/16	79 11/16	40 5/16	80 9/16	40 7/8	81 3/4	41 3/8	82 3/4
36	36	AUF(†)-36-(*)-VTU36	AUF(†)-36-(*)-VTD36	39 13/16	79 11/16	40 5/16	80 9/16	40 7/8	81 3/4	41 3/8	82 3/4
36	42	AUF(†)-42-(*)-VTU36	AUF(†)-42-(*)-VTD36	39 13/16	79 11/16	40 5/16	80 9/16	40 7/8	81 3/4	41 3/8	82 3/4
48	6	AUF(†)-06-(*)-VTU48	AUF(†)-06-(*)-VTD48	51 13/16	103 11/16	52 5/16	104 9/16	52 7/8	105 3/4	53 3/8	106 3/4
48	9	AUF(†)-09-(*)-VTU48	AUF(†)-09-(*)-VTD48	51 13/16	103 11/16	52 5/16	104 9/16	52 7/8	105 3/4	53 3/8	106 3/4
48	12	AUF(†)-12-(*)-VTU48	AUF(†)-12-(*)-VTD48	51 13/16	103 11/16	52 5/16	104 9/16	52 7/8	105 3/4	53 3/8	106 3/4
48	18	AUF(†)-18-(*)-VTU48	AUF(†)-18-(*)-VTD48	51 13/16	103 11/16	52 5/16	104 9/16	52 7/8	105 3/4	53 3/8	106 3/4
48	24	AUF(†)-24-(*)-VTU48	AUF(†)-24-(*)-VTD48	51 13/16	103 11/16	52 5/16	104 9/16	52 7/8	105 3/4	53 3/8	106 3/4
48	30	AUF(†)-30-(*)-VTU48	AUF(†)-30-(*)-VTD48	51 13/16	103 11/16	52 5/16	104 9/16	52 7/8	105 3/4	53 3/8	106 3/4
48	36	AUF(†)-36-(*)-VTU48	AUF(†)-36-(*)-VTD48	51 13/16	103 11/16	52 5/16	104 9/16	52 7/8	105 3/4	53 3/8	106 3/4
48	42	AUF(†)-42-(*)-VTU48	AUF(†)-42-(*)-VTD48	51 13/16	103 11/16	52 5/16	104 9/16	52 7/8	105 3/4	53 3/8	106 3/4

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 2 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



Aluminum fittings

H-style vertical tee up/down fittings

Selection guide

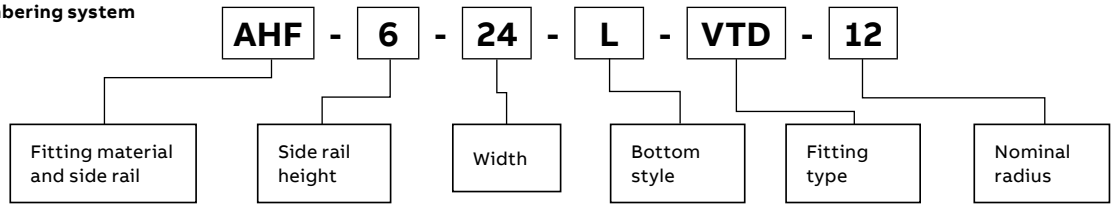
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

Vertical tee up/down – H-style

	Nominal		Vertical tee up	Vertical tee down	Side rail height "H"							
					4 in.		5 in.		6 in.		7 in.	
	Radius	Width	Cat. no.	Cat. no.	X	Y	X	Y	X	Y	X	Y
Up	12	6	AHF(†)-06-(*)-VTU12	AHF(†)-06-(*)-VTD12	17 1/16	34 3/16	17 9/16	35 1/16	18 1/8	36 1/4	18 5/8	37 1/4
	12	9	AHF(†)-09-(*)-VTU12	AHF(†)-09-(*)-VTD12	17 1/16	34 3/16	17 9/16	35 1/16	18 1/8	36 1/4	18 5/8	37 1/4
	12	12	AHF(†)-12-(*)-VTU12	AHF(†)-12-(*)-VTD12	17 1/16	34 3/16	17 9/16	35 1/16	18 1/8	36 1/4	18 5/8	37 1/4
	12	18	AHF(†)-18-(*)-VTU12	AHF(†)-18-(*)-VTD12	17 1/16	34 3/16	17 9/16	35 1/16	18 1/8	36 1/4	18 5/8	37 1/4
	12	24	AHF(†)-24-(*)-VTU12	AHF(†)-24-(*)-VTD12	17 1/16	34 3/16	17 9/16	35 1/16	18 1/8	36 1/4	18 5/8	37 1/4
	12	30	AHF(†)-30-(*)-VTU12	AHF(†)-30-(*)-VTD12	17 1/16	34 3/16	17 9/16	35 1/16	18 1/8	36 1/4	18 5/8	37 1/4
	12	36	AHF(†)-36-(*)-VTU12	AHF(†)-36-(*)-VTD12	17 1/16	34 3/16	17 9/16	35 1/16	18 1/8	36 1/4	18 5/8	37 1/4
	12	42	AHF(†)-42-(*)-VTU12	AHF(†)-42-(*)-VTD12	17 1/16	34 3/16	17 9/16	35 1/16	18 1/8	36 1/4	18 5/8	37 1/4
	24	6	AHF(†)-06-(*)-VTU24	AHF(†)-06-(*)-VTD24	29 1/16	58 3/16	29 9/16	59 1/16	30 1/8	60 1/4	30 5/8	61 1/4
	24	9	AHF(†)-09-(*)-VTU24	AHF(†)-09-(*)-VTD24	29 1/16	58 3/16	29 9/16	59 1/16	30 1/8	60 1/4	30 5/8	61 1/4
	24	12	AHF(†)-12-(*)-VTU24	AHF(†)-12-(*)-VTD24	29 1/16	58 3/16	29 9/16	59 1/16	30 1/8	60 1/4	30 5/8	61 1/4
	24	18	AHF(†)-18-(*)-VTU24	AHF(†)-18-(*)-VTD24	29 1/16	58 3/16	29 9/16	59 1/16	30 1/8	60 1/4	30 5/8	61 1/4
	24	24	AHF(†)-24-(*)-VTU24	AHF(†)-24-(*)-VTD24	29 1/16	58 3/16	29 9/16	59 1/16	30 1/8	60 1/4	30 5/8	61 1/4
	24	30	AHF(†)-30-(*)-VTU24	AHF(†)-30-(*)-VTD24	29 1/16	58 3/16	29 9/16	59 1/16	30 1/8	60 1/4	30 5/8	61 1/4
	24	36	AHF(†)-36-(*)-VTU24	AHF(†)-36-(*)-VTD24	29 1/16	58 3/16	29 9/16	59 1/16	30 1/8	60 1/4	30 5/8	61 1/4
	24	42	AHF(†)-42-(*)-VTU24	AHF(†)-42-(*)-VTD24	29 1/16	58 3/16	29 9/16	59 1/16	30 1/8	60 1/4	30 5/8	61 1/4
Down	36	6	AHF(†)-06-(*)-VTU36	AHF(†)-06-(*)-VTD36	41 1/16	82 3/16	41 9/16	83 1/16	42 1/8	84 1/4	42 5/8	85 1/4
	36	9	AHF(†)-09-(*)-VTU36	AHF(†)-09-(*)-VTD36	41 1/16	82 3/16	41 9/16	83 1/16	42 1/8	84 1/4	42 5/8	85 1/4
	36	12	AHF(†)-12-(*)-VTU36	AHF(†)-12-(*)-VTD36	41 1/16	82 3/16	41 9/16	83 1/16	42 1/8	84 1/4	42 5/8	85 1/4
	36	18	AHF(†)-18-(*)-VTU36	AHF(†)-18-(*)-VTD36	41 1/16	82 3/16	41 9/16	83 1/16	42 1/8	84 1/4	42 5/8	85 1/4
	36	24	AHF(†)-24-(*)-VTU36	AHF(†)-24-(*)-VTD36	41 1/16	82 3/16	41 9/16	83 1/16	42 1/8	84 1/4	42 5/8	85 1/4
	36	30	AHF(†)-30-(*)-VTU36	AHF(†)-30-(*)-VTD36	41 1/16	82 3/16	41 9/16	83 1/16	42 1/8	84 1/4	42 5/8	85 1/4
	36	36	AHF(†)-36-(*)-VTU36	AHF(†)-36-(*)-VTD36	41 1/16	82 3/16	41 9/16	83 1/16	42 1/8	84 1/4	42 5/8	85 1/4
	36	42	AHF(†)-42-(*)-VTU36	AHF(†)-42-(*)-VTD36	41 1/16	82 3/16	41 9/16	83 1/16	42 1/8	84 1/4	42 5/8	85 1/4
	48	6	AHF(†)-06-(*)-VTU48	AHF(†)-06-(*)-VTD48	53 1/16	106 3/16	53 9/16	107 1/16	54 1/8	108 1/4	54 5/8	109 1/4
	48	9	AHF(†)-09-(*)-VTU48	AHF(†)-09-(*)-VTD48	53 1/16	106 3/16	53 9/16	107 1/16	54 1/8	108 1/4	54 5/8	109 1/4
	48	12	AHF(†)-12-(*)-VTU48	AHF(†)-12-(*)-VTD48	53 1/16	106 3/16	53 9/16	107 1/16	54 1/8	108 1/4	54 5/8	109 1/4
	48	18	AHF(†)-18-(*)-VTU48	AHF(†)-18-(*)-VTD48	53 1/16	106 3/16	53 9/16	107 1/16	54 1/8	108 1/4	54 5/8	109 1/4
	48	24	AHF(†)-24-(*)-VTU48	AHF(†)-24-(*)-VTD48	53 1/16	106 3/16	53 9/16	107 1/16	54 1/8	108 1/4	54 5/8	109 1/4
	48	30	AHF(†)-30-(*)-VTU48	AHF(†)-30-(*)-VTD48	53 1/16	106 3/16	53 9/16	107 1/16	54 1/8	108 1/4	54 5/8	109 1/4
	48	36	AHF(†)-36-(*)-VTU48	AHF(†)-36-(*)-VTD48	53 1/16	106 3/16	53 9/16	107 1/16	54 1/8	108 1/4	54 5/8	109 1/4
	48	42	AHF(†)-42-(*)-VTU48	AHF(†)-42-(*)-VTD48	53 1/16	106 3/16	53 9/16	107 1/16	54 1/8	108 1/4	54 5/8	109 1/4

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 2 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



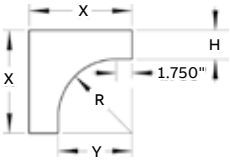
Aluminum fittings

U-style cable support fittings

Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

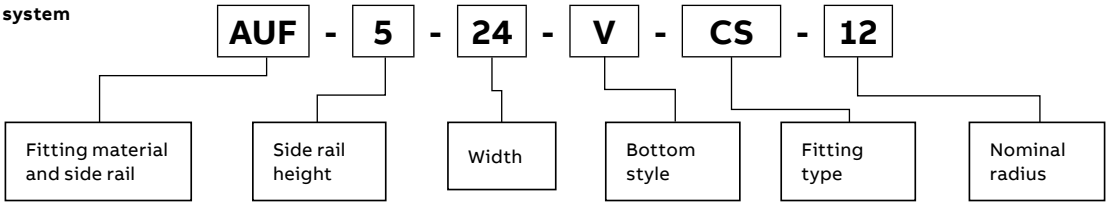
Cable support fitting – U-style



Nominal			Dimensions (in.)							
			Side rail height "H"							
			4 in.		5 in.		6 in.		7 in.	
Radius (in.)	Width (in.)	Cat. no.	X	Y	X	Y	X	Y	X	Y
12	6	AUF(†)-06-(*)-CS12	17 15/16	13 3/4	18 13/16	13 3/4	20	13 3/4	21	13 3/4
12	9	AUF(†)-09-(*)-CS12	17 15/16	13 3/4	18 13/16	13 3/4	20	13 3/4	21	13 3/4
12	12	AUF(†)-12-(*)-CS12	17 15/16	13 3/4	18 13/16	13 3/4	20	13 3/4	21	13 3/4
12	18	AUF(†)-18-(*)-CS12	17 15/16	13 3/4	18 13/16	13 3/4	20	13 3/4	21	13 3/4
12	24	AUF(†)-24-(*)-CS12	17 15/16	13 3/4	18 13/16	13 3/4	20	13 3/4	21	13 3/4
12	30	AUF(†)-30-(*)-CS12	17 15/16	13 3/4	18 13/16	13 3/4	20	13 3/4	21	13 3/4
12	36	AUF(†)-36-(*)-CS12	17 15/16	13 3/4	18 13/16	13 3/4	20	13 3/4	21	13 3/4
12	42	AUF(†)-42-(*)-CS12	17 15/16	13 3/4	18 13/16	13 3/4	20	13 3/4	21	13 3/4
24	6	AUF(†)-06-(*)-CS24	29 15/16	25 3/4	30 13/16	25 3/4	32	25 3/4	33	25 3/4
24	9	AUF(†)-09-(*)-CS24	29 15/16	25 3/4	30 13/16	25 3/4	32	25 3/4	33	25 3/4
24	12	AUF(†)-12-(*)-CS24	29 15/16	25 3/4	30 13/16	25 3/4	32	25 3/4	33	25 3/4
24	18	AUF(†)-18-(*)-CS24	29 15/16	25 3/4	30 13/16	25 3/4	32	25 3/4	33	25 3/4
24	24	AUF(†)-24-(*)-CS24	29 15/16	25 3/4	30 13/16	25 3/4	32	25 3/4	33	25 3/4
24	30	AUF(†)-30-(*)-CS24	29 15/16	25 3/4	30 13/16	25 3/4	32	25 3/4	33	25 3/4
24	36	AUF(†)-36-(*)-CS24	29 15/16	25 3/4	30 13/16	25 3/4	32	25 3/4	33	25 3/4
24	42	AUF(†)-42-(*)-CS24	29 15/16	25 3/4	30 13/16	25 3/4	32	25 3/4	33	25 3/4
36	6	AUF(†)-06-(*)-CS36	41 15/16	37 3/4	42 13/16	37 3/4	44	37 3/4	45	37 3/4
36	9	AUF(†)-09-(*)-CS36	41 15/16	37 3/4	42 13/16	37 3/4	44	37 3/4	45	37 3/4
36	12	AUF(†)-12-(*)-CS36	41 15/16	37 3/4	42 13/16	37 3/4	44	37 3/4	45	37 3/4
36	18	AUF(†)-18-(*)-CS36	41 15/16	37 3/4	42 13/16	37 3/4	44	37 3/4	45	37 3/4
36	24	AUF(†)-24-(*)-CS36	41 15/16	37 3/4	42 13/16	37 3/4	44	37 3/4	45	37 3/4
36	30	AUF(†)-30-(*)-CS36	41 15/16	37 3/4	42 13/16	37 3/4	44	37 3/4	45	37 3/4
36	36	AUF(†)-36-(*)-CS36	41 15/16	37 3/4	42 13/16	37 3/4	44	37 3/4	45	37 3/4
36	42	AUF(†)-42-(*)-CS36	41 15/16	37 3/4	42 13/16	37 3/4	44	37 3/4	45	37 3/4
48	6	AUF(†)-06-(*)-CS48	53 15/16	49 3/4	54 13/16	49 3/4	56	49 3/4	57	49 3/4
48	9	AUF(†)-09-(*)-CS48	53 15/16	49 3/4	54 13/16	49 3/4	56	49 3/4	57	49 3/4
48	12	AUF(†)-12-(*)-CS48	53 15/16	49 3/4	54 13/16	49 3/4	56	49 3/4	57	49 3/4
48	18	AUF(†)-18-(*)-CS48	53 15/16	49 3/4	54 13/16	49 3/4	56	49 3/4	57	49 3/4
48	24	AUF(†)-24-(*)-CS48	53 15/16	49 3/4	54 13/16	49 3/4	56	49 3/4	57	49 3/4
48	30	AUF(†)-30-(*)-CS48	53 15/16	49 3/4	54 13/16	49 3/4	56	49 3/4	57	49 3/4
48	36	AUF(†)-36-(*)-CS48	53 15/16	49 3/4	54 13/16	49 3/4	56	49 3/4	57	49 3/4
48	42	AUF(†)-42-(*)-CS48	53 15/16	49 3/4	54 13/16	49 3/4	56	49 3/4	57	49 3/4

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



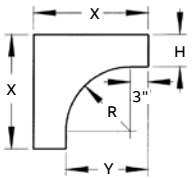
Aluminum fittings

H-style cable support fittings

Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 4–7 in.

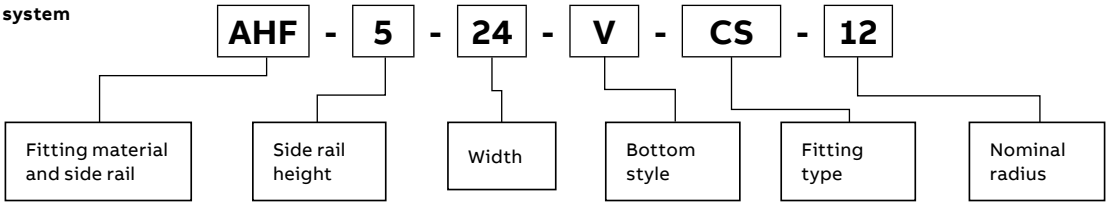
Cable support fitting – H-style



Nominal			Dimensions (in.)							
			Side rail height "H"							
			4 in.		5 in.		6 in.		7 in.	
Radius (in.)	Width (in.)	Cat. no.	X	Y	X	Y	X	Y	X	Y
12	6	AHF(†)-06-(*)-CS12	19 3/16	15	20 1/16	15	21 1/4	15	22 1/4	15
12	9	AHF(†)-09-(*)-CS12	19 3/16	15	20 1/16	15	21 1/4	15	22 1/4	15
12	12	AHF(†)-12-(*)-CS12	19 3/16	15	20 1/16	15	21 1/4	15	22 1/4	15
12	18	AHF(†)-18-(*)-CS12	19 3/16	15	20 1/16	15	21 1/4	15	22 1/4	15
12	24	AHF(†)-24-(*)-CS12	19 3/16	15	20 1/16	15	21 1/4	15	22 1/4	15
12	30	AHF(†)-30-(*)-CS12	19 3/16	15	20 1/16	15	21 1/4	15	22 1/4	15
12	36	AHF(†)-36-(*)-CS12	19 3/16	15	20 1/16	15	21 1/4	15	22 1/4	15
12	42	AHF(†)-42-(*)-CS12	19 3/16	15	20 1/16	15	21 1/4	15	22 1/4	15
24	6	AHF(†)-06-(*)-CS24	31 3/16	27	32 1/16	27	33 1/4	27	34 1/4	27
24	9	AHF(†)-09-(*)-CS24	31 3/16	27	32 1/16	27	33 1/4	27	34 1/4	27
24	12	AHF(†)-12-(*)-CS24	31 3/16	27	32 1/16	27	33 1/4	27	34 1/4	27
24	18	AHF(†)-18-(*)-CS24	31 3/16	27	32 1/16	27	33 1/4	27	34 1/4	27
24	24	AHF(†)-24-(*)-CS24	31 3/16	27	32 1/16	27	33 1/4	27	34 1/4	27
24	30	AHF(†)-30-(*)-CS24	31 3/16	27	32 1/16	27	33 1/4	27	34 1/4	27
24	36	AHF(†)-36-(*)-CS24	31 3/16	27	32 1/16	27	33 1/4	27	34 1/4	27
24	42	AHF(†)-42-(*)-CS24	31 3/16	27	32 1/16	27	33 1/4	27	34 1/4	27
36	6	AHF(†)-06-(*)-CS36	43 3/16	39	44 1/16	39	45 1/4	39	46 1/4	39
36	9	AHF(†)-09-(*)-CS36	43 3/16	39	44 1/16	39	45 1/4	39	46 1/4	39
36	12	AHF(†)-12-(*)-CS36	43 3/16	39	44 1/16	39	45 1/4	39	46 1/4	39
36	18	AHF(†)-18-(*)-CS36	43 3/16	39	44 1/16	39	45 1/4	39	46 1/4	39
36	24	AHF(†)-24-(*)-CS36	43 3/16	39	44 1/16	39	45 1/4	39	46 1/4	39
36	30	AHF(†)-30-(*)-CS36	43 3/16	39	44 1/16	39	45 1/4	39	46 1/4	39
36	36	AHF(†)-36-(*)-CS36	43 3/16	39	44 1/16	39	45 1/4	39	46 1/4	39
36	42	AHF(†)-42-(*)-CS36	43 3/16	39	44 1/16	39	45 1/4	39	46 1/4	39
48	6	AHF(†)-06-(*)-CS48	55 3/16	51	56 1/16	51	57 1/4	51	58 1/4	51
48	9	AHF(†)-09-(*)-CS48	55 3/16	51	56 1/16	51	57 1/4	51	58 1/4	51
48	12	AHF(†)-12-(*)-CS48	55 3/16	51	56 1/16	51	57 1/4	51	58 1/4	51
48	18	AHF(†)-18-(*)-CS48	55 3/16	51	56 1/16	51	57 1/4	51	58 1/4	51
48	24	AHF(†)-24-(*)-CS48	55 3/16	51	56 1/16	51	57 1/4	51	58 1/4	51
48	30	AHF(†)-30-(*)-CS48	55 3/16	51	56 1/16	51	57 1/4	51	58 1/4	51
48	36	AHF(†)-36-(*)-CS48	55 3/16	51	56 1/16	51	57 1/4	51	58 1/4	51
48	42	AHF(†)-42-(*)-CS48	55 3/16	51	56 1/16	51	57 1/4	51	58 1/4	51

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Part numbering system



Aluminum fittings
Helix® cable tray fitting

01 Right-turn assembly
02 Left-turn assembly

The Helix cable tray fitting.
Efficiency is in its DNA.

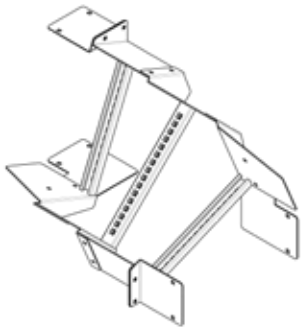
Go from horizontal to vertical, maximum cable protection, minimum space.
Making transitions from horizontal to vertical cable tray runs has never been easier or more efficient. The latest evolution in cable tray fittings, the Helix fitting assembly was developed specifically for use in confined areas. It allows installers to transition from horizontal to vertical surfaces in less time, using significantly less space.

- Enables installation close to walls and other surfaces, eliminating need for distance
- Provides enhanced cable protection in confined spaces
- Secures cables within fitting for clean, organized cable runs

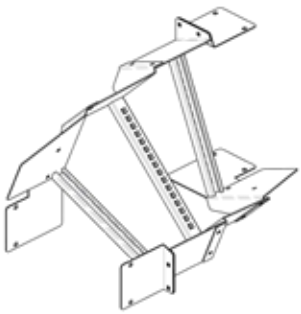
Helix cable tray fitting

Cat. no.	Material	Side rail (in.)	Width (in.)	Direction
AUF612LHVR	Aluminum	6	12	Right turn
AUF612LHVL	Aluminum	6	12	Left turn
AUF624LHVR	Aluminum	6	24	Right turn
AUF624LHVL	Aluminum	6	24	Left turn

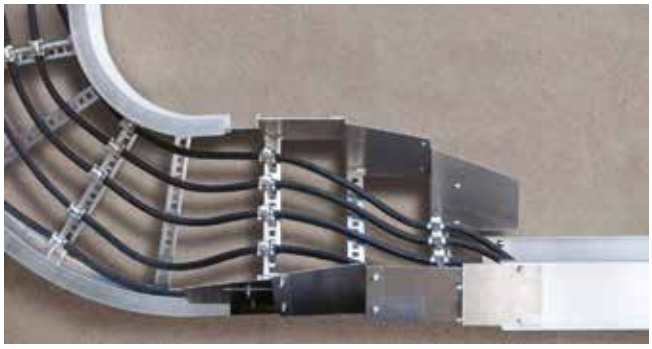
Supports should be positioned within 24" (610 mm) of each Helix fitting extremity.



01

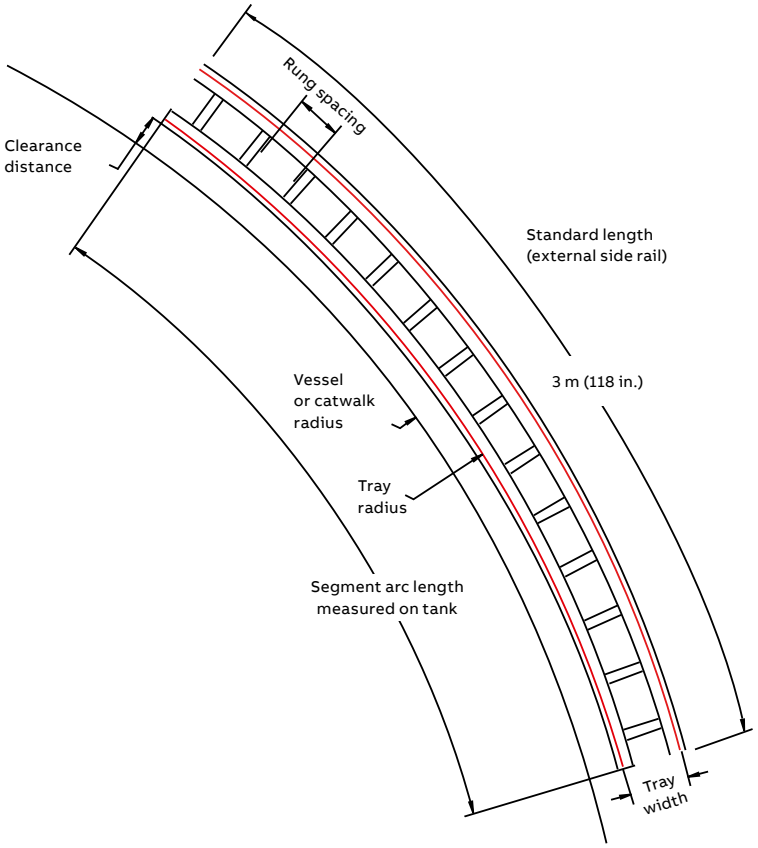


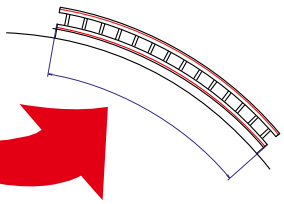
02

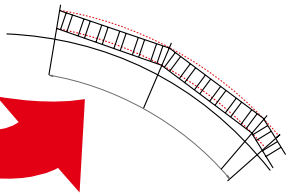


Aluminum
Large radius aluminum cable tray

Large radius aluminum cable tray







Old method

This cable tray design offers a custom-built cable support system for each petrochemical project tank or tower. This cable tray system is usually installed around the outer perimeter of the catwalks and stairs that are mounted on the tank or vessel.

ABB takes pride in manufacturing a complete system to meet your most rigorous requirements. Our cable support systems reduce the costly and labor-intensive modifications required to assemble straight sections, splice plates and accessories to fit your tank or vessel.

T&B large radius aluminum cable tray systems mount flawlessly with no extra cutting, set-up or surplus material. With the option of pre-assembly of this cable tray system prior to erection of the tank or vessel, you can drastically reduce installing time.

ABB aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Features and benefits
- No mitered joints
- No bent splice plates
- Less costly
- Easier to install
- Faster to install
- Fewer skills required to install
- Cleaner lines
- Improved functionality and aesthetics

Data required for quotation
Height of the cable tray: in.
Width of the cable tray: in.
Rung spacing: in.
Load rating and support span: lb/ft. (kg/m)
Radius of tank or vessel: in.
Clearance distance: in.
Quantity required: (number of segments)
or total arc length: (measured on structure)

Aluminum
Tray covers

01 Solid cover, flanged
02 Solid cover, unflanged
03 Ventilated flanged covers
04 Peaked flanged cover

Number selection

Tray covers
Tray covers are available for all classes of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Solid covers
These covers provide maximum mechanical protection for cables with limited heat build-up. Solid covers are available with or without flange. Flanged covers have ½ in. flange.

Ventilated flanged covers
This design offers excellent mechanical protection while allowing heat produced by cables to dissipate.

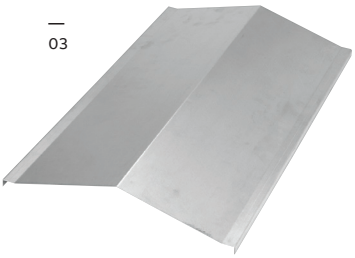
For extreme applications: Peaked flanged covers, peaked ventilated covers
Peaked covers offer mechanical protection and reduce pooling of liquids on the cover.

Cover mounting hardware must be ordered separately.

01


02


03


03


Straight cover number selection

(ABW - 3 - 12) - SNC - 72

Material prefix

Aluminum	**ABW**

Cover series

3	**3**

Width (in.)

6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

Cover type

Solid non-flanged cover	**SNC**
Solid flanged cover	**SFC**
Ventilated flanged cover	**VFC**
Peaked flanged cover	**PFC**
Peaked ventilated flanged cover	**PVC**

Length

72 in.	**72**
3 m	**3**
144 in.*	**144**

*Length 144" not available for VFC and PVC. For SNC, SFC and PFC only available up to 18" width.

Aluminum

Fittings covers

Fitting covers number selection

A UW - 12 - SNC - HB 90 - 24

Material prefix
Aluminum **A**

Fitting style prefix
U-beam **UW**
H-beam **HW**

Width (in.)

6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

Cover type
Solid non-flanged cover **SNC**
Solid flanged cover **SFC**
Ventilated flanged cover **VFC**

Fitting type
Horizontal bend **HB**
Vertical inside bend **VI**

Angle

30°	**30**
45°	**45**
60°	**60**
90°	**90**

Nominal radius (in.)

12	**12**
24	**24**
36	**36**
48	**48**

A UW - 18 - 12 - SNC - RT - 12

Material prefix
Aluminum **A**

Fitting style prefix
U-beam **UW**
H-beam **HW**

Width 1 (in.)

6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

Width 2 (in.)**

6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

Cover type
Solid non-flanged cover **SNC**
Solid flanged cover **SFC**
Ventilated flanged cover **VFC**

Fitting type
Horizontal reducing tee **RT**
Horizontal expanding tee **ET**
Horizontal expanding cross **EX**
Horizontal straight reducer **HSR**
Horizontal left reducer **HLR**
Horizontal right reducer **HRR**
Horizontal tee **HT**
Horizontal cross **HX**
Vertical tee up **VTU**
Horizontal wye right **HYR**
Horizontal wye left **HYL**

Radius (in.)*

12	**12**
24	**24**
36	**36**
48	**48**

—
For ET and EX, W2 > W1.
For RT, HSR, HLR, HRR, W1 > W2.
** Not required for VTU, HYR, HYL, HT, HX.
* Radius not required for HSR, HLR, HRR, HYR, HYL.

A UW - 4 - 12 - SNC - VO 90 - 24

Material prefix
Aluminum **A**

Fitting style prefix
U-beam **UW**
H-beam **HW**

Side rail height (in.)

4	4
5	5
6	6
7	7

Width (in.)

6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

Cover type
Solid non-flanged cover **SNC**
Solid flanged cover **SFC**
Ventilated flanged cover **VFC**

Fitting type
Vertical outside bend **VO**
Vertical tee down **VTD**
Cable support **CS**

Angle*

30°	**30**
45°	**45**
60°	**60**
90°	**90**

Nominal radius (in.)

12	**12**
24	**24**
36	**36**
48	**48**

—
For peaked fitting covers refer to pages A97 to A99
* Not required for VTD nor for CS.

Aluminum

Peaked covers

Horizontal bend/vertical inside bend (peaked covers) number selection

—
Pregalvanized
not available

A	UW	-	12	-	PFC	-	HB	-	90	-	24

Fitting style prefix

U-beam	**UW**
H-beam	**HW**

Material

Aluminum	**A**

Width (in.)

6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

Cover type

Peaked flanged cover	**PFC**
Peaked ventilated flanged cover	**PVC**

Fitting type

Horizontal bend	**HB**
Vertical inside bend	**VI**

Angle

30°	**30**
45°	**45**
60°	**60**
90°	**90**

Nominal radius (in.)

12	**12**
24	**24**
36	**36**
48	**48**

Vertical outside bend (peaked covers) number selection

—
Pregalvanized
not available

A	UW	-	4	-	12	-	PFC	-	VO	-	90	-	24

Fitting style prefix

U-beam	**UW**
H-beam	**HW**

Material prefix

Aluminum	**A**

Width (in.)

6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

Cover type

Peaked flanged cover	**PFC**
Peaked ventilated flanged cover	**PVC**

Side rail height (in.)

4	**4**
5	**5**
6	**6**
7	**7**

Fitting type

Vertical outside bend	**VO**

Angle

30°	**30**
45°	**45**
60°	**60**
90°	**90**

Nominal radius (in.)

12	**12**
24	**24**
36	**36**
48	**48**

Horizontal tee (peaked covers) number selection

—
Pregalvanized
not available

A	UW	-	12	-	PFC	-	HT	-	24

Fitting style prefix

U-beam	**UW**
H-beam	**HW**

Material prefix

Aluminum	**A**

Width (in.)

6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

Cover type

Peaked flanged cover	**PFC**
Peaked ventilated flanged cover	**PVC**

Fitting type

Horizontal tee	**HT**

Nominal radius (in.)

12	**12**
24	**24**
36	**36**
48	**48**

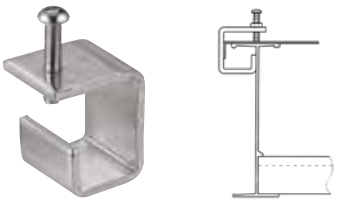
Aluminum covers

Accessories

Quantity of standard cover clamps required			
Straight sections 1.8 m (6 ft.)	4 pcs.	Tees	6 pcs.
Straight sections 3 m (10 ft.) and 3.7 m (12 ft.)	6 pcs.	Crosses	8 pcs.
Horizontal and vertical bends	4 pcs.		

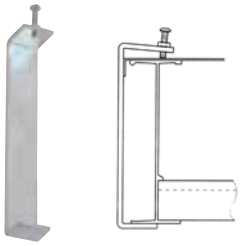
Important note: "B" in cat. no. indicates this accessory can be used for both styles.
When using heavy-duty cover clamp, only half the quantity of pieces are required.

Economical cover clamp

	Cat. no.	Application	Side rail height (in.)
	ABW-SCC	For use with aluminum covers	All sizes

Rigid indoor cover clamp for flat and flanged covers.
Cannot be used with U-style fittings.

Universal fitting cover clamp

	Cat. no.	Application	Side rail height (in.)
	ABW(*)FCC	For use with aluminum covers	4
		For use with aluminum covers	5
		For use with aluminum covers	6
		For use with aluminum covers	7

Rigid indoor cover clamp for flat and flanged covers.
(*) Insert side rail height

Heavy-duty cover clamp

- Side rail heights: 4, 5, 6, 7 in.
- Tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.

	Cat. no.	Material	Side rail height	Tray width (in.)
	ABW(*)(**)HCC	Aluminum	4 to 7	06 to 42

Wraparound design offers added protection for rugged applications and outdoor conditions. Hardware included.
(*) Insert side rail height
(**) Insert tray width

—
Extreme heavy-duty cover clamp

- Side rail heights: 4, 5, 6, 7 in.
- Tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.

	Cat. no.	Material	Side rail height	Tray width (in.)
	ABW(*)(**)ECC	Aluminum	4 to 7	06 to 42

Wraparound design offers added protection for rugged applications and outdoor conditions. Hardware included.
(*) Insert side rail height
(**) Insert tray width

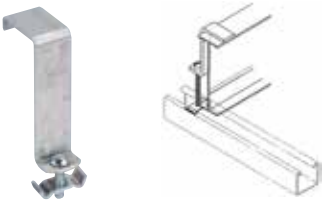
—
Heavy-duty peaked cover clamp

- Side rail heights: 4, 5, 6, 7 in.
- Tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.

	Cat. no.	Material	Side rail height	Tray width (in.)
	ABW(*)(**)HPC	Aluminum	4 to 7	06 to 42

Wraparound design formed to fit peaked cover for outdoor applications. Hardware included.
(*) Insert side rail height
(**) Insert tray width

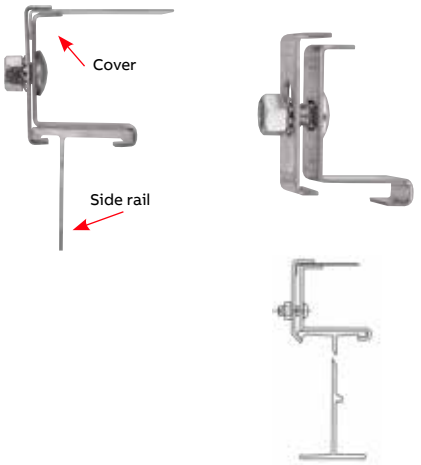
—
Hold-down clamp

	Cat. no.	Material	Side rail height (in.)
	ABW(*)HDC	Aluminum	4
		Aluminum	5
		Aluminum	6
		Aluminum	7

Designed to secure cable tray to support system.Hardware included.
(*) Insert side rail height

Aluminum covers
Accessories

Raised cover clamp



Cat. no.	Application	Cover series	Cover offset (in.)*
ABW3(*)RCC†	For use with aluminum covers	3	1
	For use with aluminum covers	3	2
	For use with aluminum covers	3	3
	For use with aluminum covers	3	4

(*) Cover offset. For straight section and PFC and SFC covers only.
Designed to raise cover above tray for added ventilation.
† For indoor applications only.

Peaked end cap

Cat. no.	Material	Tray width (in.)
ABW(*)PEC	Aluminum	06
	Aluminum	09
	Aluminum	12
	Aluminum	18
	Aluminum	24
	Aluminum	30
	Aluminum	36
	Aluminum	42

(*) Insert tray width. Used for transition between peaked covers to straight covers.

Cover joint strip

Cat. no.	Material	Tray width (in.)
ABW(*)PCS	Plastic	06
	Plastic	09
	Plastic	12
	Plastic	18
	Plastic	24
	Plastic	30
	Plastic	36
	Plastic	42

(*) Insert tray width.
Strip used for joining flat covers end to end.

Aluminum splice plates

Snap-in and transition plates

- Designed to lock into place for easy alignment and installation
- Packaged in pairs with zinc-plated hardware
- Kit contents: 8 bolts, 8 nuts
- Provided as standard with each straight and fitting

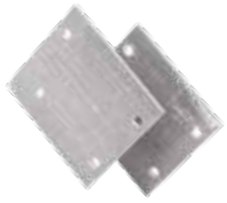
Snap-in splice plate

Cat. no.	Material	Side rail height (in.)
ABW-4-SSP	Aluminum	4
ABW-5-SSP	Aluminum	5
ABW-6-SSP	Aluminum	6
ABW-7-SSP	Aluminum	7

- Allows for a 1 in. expansion or contraction of tray system
- Packaged in pairs with zinc-plated hardware
- Kit contents: 8 bolts, 4 nuts, 4 stop nuts ⅜ in. diameter

Snap-in expansion splice plate

Cat. no.	Material	Side rail height (in.)
ABW-4-ESP	Aluminum	4
ABW-5-ESP	Aluminum	5
ABW-6-ESP	Aluminum	6
ABW-7-ESP	Aluminum	7



- Designed to make the transition from aluminum to steel cable tray
- Works for all 6 in. side rails

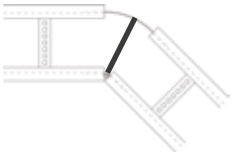
Transition splice plate

Cat. no.	Material	Side rail height (in.)
XNM-XP400-(*)-SS6	Polyester/fiberglass	6

Each pair of plates:
8 x carriage bolt (⅜ x 1 in.) SS316
8 x ⅜ in. serrated flange nut SS316

Aluminum splice plates

Horizontal and vertical bend plates - Flexible coupler



Horizontal bend plate

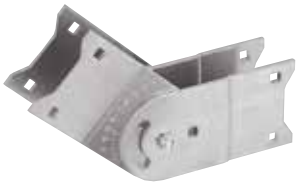
Cat. no.	Material	Side rail height (in.)	Tray width (in.)
ABW-(*)06HBP	Aluminum	4 to 7	06
ABW-(*)09HBP	Aluminum	4 to 7	09
ABW-(*)12HBP	Aluminum	4 to 7	12
ABW-(*)18HBP	Aluminum	4 to 7	18
ABW-(*)24HBP	Aluminum	4 to 7	24
ABW-(*)30HBP	Aluminum	4 to 7	30
ABW-(*)36HBP	Aluminum	4 to 7	36

Furnished in pairs with hardware.
(*) Insert side rail height.

Optional rung information (provides additional cable support)

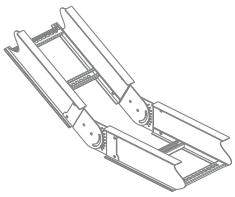
Cat. no.	Material	Tray width (in.)
ABW-R(*)HBP	Aluminum	06
	Aluminum	09
	Aluminum	12
	Aluminum	18
	Aluminum	24
	Aluminum	30
	Aluminum	36

* Insert tray width



- Hinged vertical plates provide maximum flexibility for changes in elevation
- Furnished in pairs with hardware
- Kit contents: 10 carriage bolts, 2 cap screws, 12 serrated flange nuts, ⅜ in. diameter

Vertical bend plate

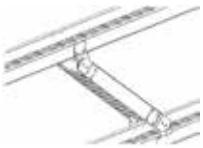


Cat. no.	Material	Side rail height (in.)
ABW-4-VSP	Aluminum	4
ABW-5-VSP	Aluminum	5
ABW-6-VSP	Aluminum	6
ABW-7-VSP	Aluminum	7

Aluminum splice plates

Branch pivot connectors, box-to-tray plates and closure end plate

Branch pivot connectors

Cat. no.	Material	Side rail height (in.)
ABW-4-BPC	Aluminum	4
ABW-5-BPC	Aluminum	5
ABW-6-BPC	Aluminum	6
ABW-7-BPC	Aluminum	7

Allows cables to run from one tray level to another.

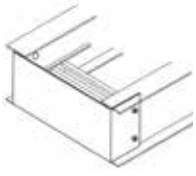
- Designed to secure tray to electrical panels or boxes, walls or end supports
- Furnished in pairs with hardware
- Kit contents: 8 bolts, 8 nuts, 8 lock washers, ⅜ in. diameter

Box-to-tray plates

Cat. no.	Material	Side rail height (in.)
ABW-4-BSP	Aluminum	4
ABW-5-BSP	Aluminum	5
ABW-6-BSP	Aluminum	6
ABW-7-BSP	Aluminum	7

- Provides closure for any tray end
- Packaged with hardware
- Kit contents: 4 bolts, 4 nuts, 4 washers, ⅜ in. diameter
- Side rail heights: 4 in., 5 in., 6 in., 7 in.
- Inside tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.

Closure end plate

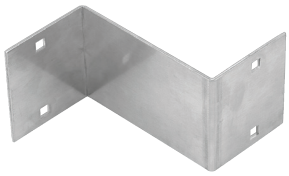


Cat. no.	Material	Side rail height (in.)*	Tray width (in.)**
ABW-(*)(**)-CEP	Aluminum	4 to 7	06 to 42

(*) Insert side rail height
(**) Insert tray width

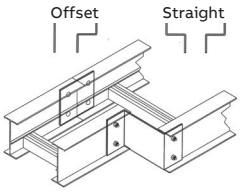
Aluminum splice plates

Reducing splice plate, step-down splice plate, Super-Duty Splice Plate™

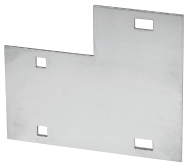


- Used in pairs to provide a straight reduction or used with a standard splice plate for an offset reduction
- Packaged with hardware
- Kit contents: 4 bolts, 4 nuts

Reducing splice plate

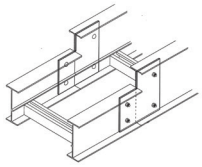
	Cat. no.	Material	Side rail height (in.)
	ABW-4(*)-RSP	Aluminum	4
	ABW-5(*)-RSP	Aluminum	5
	ABW-6(*)-RSP	Aluminum	6
	ABW-7(*)-RSP	Aluminum	7

(*) For offset reduction: insert width to be reduced. For straight reduction: insert ½ width to be reduced (2 required).
Example: ABW-43-RSP = 3 in. offset reducer.



- Connects side rails of different heights
- Kit contents: 4 bolts, 4 nuts

Step-down splice plate

	Cat. no.	Material	Side rail height (in.)
	ABW(*)(**)SDS	Aluminum	4
		Aluminum	5
		Aluminum	6
		Aluminum	7

(*) Side rail height 1. (**) Side rail height 2.
Side rail height 1 is greater then side rail height 2.

- 2 Super-Duty Splice Plates
- 12 ribbed-neck carriage bolts
- 8 nylon insert locknuts
- 8 serrated flanged locknuts
- 12 nylon washers (spacers)

Super-Duty Splice Plate

	Cat. no.	Side rail height (in.)
	ABW(*)SDP	4
		5
		6
		7

Comes complete with all hardware required, for either expansion or mid-span splicing.

Splice plates
Over-support splice adaptor

01 Expansion plate gap chart

Every expansion joint requires the use of a bonding jumper such as FBD16-1 (16 in., 600 amps)

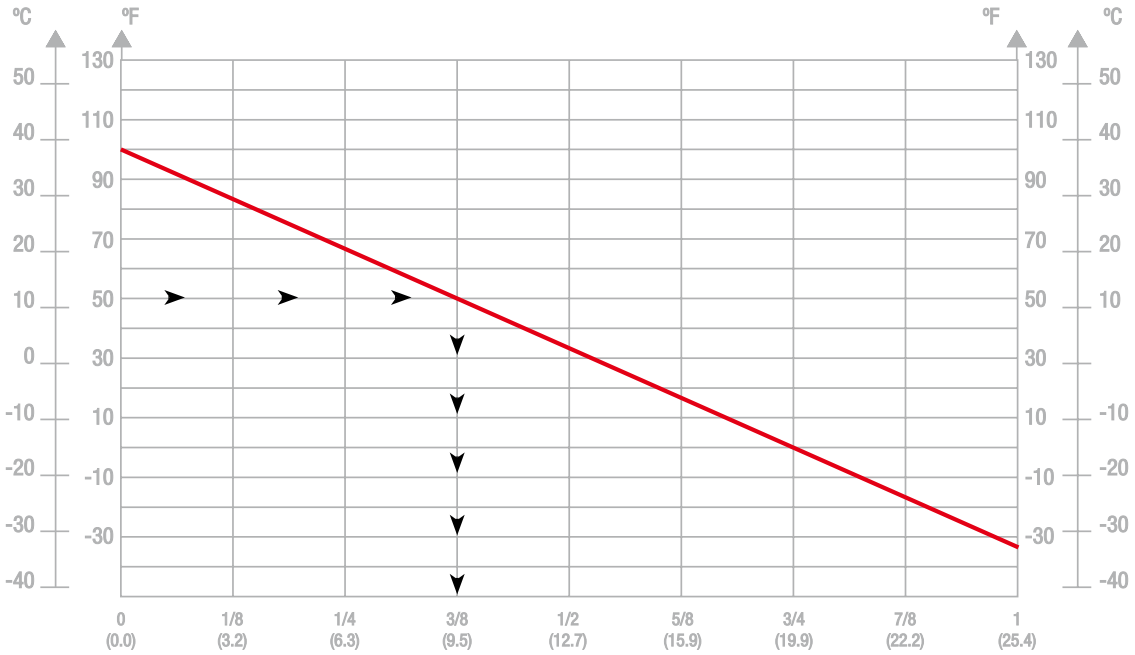
ABW46-OSS-B

Over-support splice adaptor – Beam installation
- Expansion over support beam 29 in.
- SHW-CTC, heavy-duty hold-down clamp (complete with mounting hardware)
- ABWCHGC, standard hold-down clamp
- E142-3/8x100EG, ⅜ in.–16 x 1 in. hex cap screws
- AC100-3/8EGC, ⅜ in. strut nut

ABW46-OSS-S

Over-support splice adaptor – Strut installation
- Expansion over support beam 29 in.
- ABWCHGC, standard hold-down clamp
- E142-3/8x100EG, ⅜ in.–16 x 1 in. hex cap screws
- AC100-3/8EGC, ⅜ in. strut nut

01

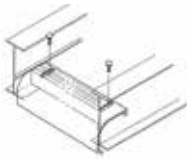


Aluminum cable protection

Drop out and wall penetration sleeve

- Designed to provide a smooth radius surface at any position on the tray or trough bottom
- Drop outs are easily attached using hardware provided
- Standard radius 4 in.
- Tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.

Drop out

	Cat. no.	Description	Tray width (in.)
	ABW(*)DO(S)	For ladder and ventilated tray, aluminum	06 to 42

(*) Insert tray width
(S) Solid tray only

- Designed to pass through walls and fire walls.
- Hardware included
- Important: Not fire rated
- Fire stop not included
- Sold with cover
- Side rail heights: 4, 5, 6, 7 in.
- Tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.

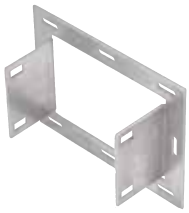
Wall penetration sleeve

Cat. no.	Material	Side rail height (in.)	Tray width (in.)
ABW(*)(**)WPS	Aluminum	4 to 7	06 to 42

(*) Insert side rail height.
(**) Insert tray width

Aluminum cable protection

Frame-type tray-to-box plate and expansion pad



- Designed to secure tray to electrical enclosures and panels
- Hardware included
- Side rail heights: 4, 5, 6, 7 in.
- Tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.

Frame-type tray-to-box plate

Cat. no.	Material	Side rail height (in.)	Tray width (in.)
ABW(*)(**)FBP	Aluminum	4 to 7	06 to 42

(*) Insert side rail height. (**) Insert tray width

Nylon expansion pad

	Cat. no.	Material
	ABW-NSP	Natural nylon

Allows for thermal expansion and contraction of cable trays over supports.

Aluminum barrier strips

Barrier strips, vertical bend barriers

SBH

SB

- Aluminum barrier strips provide a method of separating cables in tray and trough systems
- Easily installed using supplied hardware
- 72 in. barriers are flexible for use with horizontal fittings

Barrier strips

Cat. no.	Designed for side rail height (in.)	Length
ABW-4-SBH-72	4	72 in.
ABW-5-SBH-72	5	72 in.
ABW-6-SBH-72	6	72 in.
ABW-7-SBH-72	7	72 in.
ABW-4-SB-(*)	4	144 in. 3 m
ABW-5-SB-(*)	5	144 in. 3 m
ABW-6-SB-(*)	6	144 in. 3 m
ABW-7-SB-(*)	7	144 in. 3 m

72 in. barriers provided with 3 SPW10SCR. 144 in., 3 m barriers provided with 6 SPW10SCR.
(*) Insert length.

Inside/outside vertical bend barriers

Inside bend cat. no.	Outside bend cat. no.	Designed for side rail height (in.)
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	4
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	5
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	6
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	7
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	4
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	5
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	6
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	7

(*) Insert side rail height (**) Insert bend angle (+) Insert bend radius.

Barrier strip splice

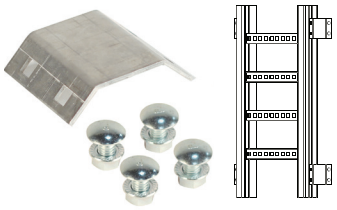
Cat. no.	Material
ABWBSS	Plastic

Alignment splice for joining connecting barrier strips.

Aluminum clamps and hardware

Hold-down clamps, combo clamps, conduit clamps and tray hardware

Hold-down clamp



Cat. no.	Type	Material	Design load
ABW-HDCS	Single	Aluminum	600 lb/pair
ABW-HDCD	Double	Aluminum	1000 lb/pair

For vertical applications

Cable tray combo clamp

Cat. no.	Material	Hardware size (in.)
ABWCHGC	Aluminum	⅜
ABWCHGC-HDW*	Aluminum	⅜

Cable tray orientation	Bolt torque	Design load
Vertical/running vertical	17 lb-ft; 23 Nm	300 lbs/pair
Vertical/running horizontal	17 lb-ft; 23 Nm	700 lbs/pair
Reversed	17 lb-ft; 23 Nm	400 lbs/pair

*Hardware supplied: 1 bolt and 1 springless strut nut ⅜ in. diameter.

Conduit clamp

Cat. no.	Material	Conduit size (in.)
ABW-100-CDO	Aluminum	1
ABW-125-CDO	Aluminum	1¼
ABW-150-CDO	Aluminum	1½
ABW-200-CDO	Aluminum	2
ABW-250-CDO	Aluminum	2½
ABW-300-CDO	Aluminum	3
ABW-400-CDO	Aluminum	4

Aluminum tray hardware

Square shoulder self-positioning carriage bolt.

Cat. no.	Material	Description
SPW-1/4-CB	Zinc-plated steel	¼ in. carriage bolt
SPW-3/8-CB	Zinc-plated steel	⅜ in. carriage bolt
SPW-1/4-HN	Zinc-plated steel	¼ in. hex. nut
SPW-3/8-HN	Zinc-plated steel	⅜ in. hex. nut
SPW3/8HWK*	Zinc-plated steel	Zinc-plated steel hardware kit
SPW-3/8HXHWK**	Zinc-plated steel	Hardware kit ⅜ in. for large radius crosses
SSW-3/8-CB	316 stainless	⅜ in. carriage bolt
SSW-3/8-HN	316 stainless	⅜ in. hex. nut
SSW38HWK*	316 stainless	316 stainless steel hardware kit
SSW-3/8HXHWK**	316 stainless	Hardware kit ⅜ in. for large radius crosses

*Contains 8 bolts and 8 nuts.
**Contains 6 bolts, 6 nuts and 6 washers.

Aluminum clamps and hardware

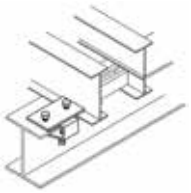
Self-drilling tapping screws, cable tray guide, cable tray clamp and vertical tray hanger

Self-drilling tapping screw

	Cat. no.	Material	Description
	SPW-10-SCR	Zinc-plated steel	Self-drilling tapping screw
		Stainless steel	Self-drilling tapping screw

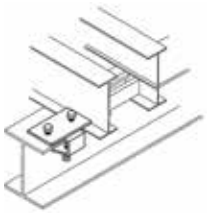
- Expansion guide for single or double runs of cable tray
- No need to field drill the channel or I-beam

Cable tray guide

	Cat. no.	Material
	SPW-CTG	Zinc-plated steel
		Hot-dipped galvanized steel

- Clamp for single run of cable tray
- No need to field drill the channel or I-beam

Cable tray clamp

	Cat. no.	Material
	SPW-CTC	Zinc-plated steel
		Hot-dipped galvanized steel

Vertical tray hanger

	Cat. no.	Material	Side rail height (in.)
	ABW(*)VTH	Aluminum	4
		Aluminum	5
		Aluminum	6
		Aluminum	7

(*) Insert side rail height

Steel cable tray
Straight lengths – Tray bottom

01 Ladder
02 Ventilated
03 Solid trough

01

02

03

Ladder, ventilated and solid trough

Ladder
Formed side rails are welded to 1⅝ in. wide rungs to provide maximum rigidity and strength. Rung design includes exclusive Ty-Rap cable tie slots on 1 in. centers.

Ventilated
A fabricated structure consisting of integral or separate longitudinal rails and a bottom having openings sufficient for the passage of air and utilizing 75% or less of the plane area of the surface to support cables.

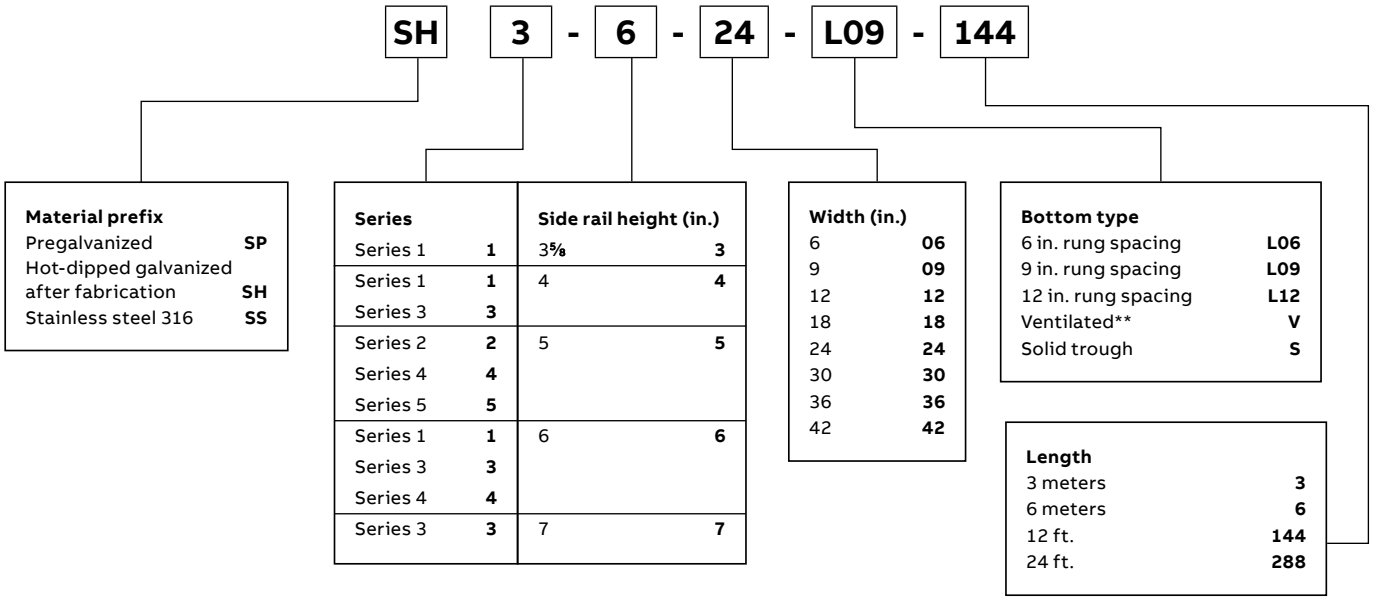
The maximum open spacings between cable support surfaces of transverse elements do not exceed 102 mm (4 in.) in the direction parallel to the tray side rails (rung to rung).

Solid trough
Solid sheet welded to steel side rails below rungs. This design offers added cable protection.

Straight section number selection

How to create part numbers
ABB has created a numbering system based on the order of selection criteria. For example, the first selection issue is the environment to which the cable tray will be subjected. This selection will lead to the best material for your application. For complete details on the cable tray selection process, see page A9 in the technical section.

Methods
1. Select the material best suited to your environment. Refer to technical section page A9.
2. Determine the tray series using the NEMA/CSA load/span designations page A16, and sizing cable tray page A23.
3. Select nominal depth and width of tray based on cable loading. See sizing cable tray page A23.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray in meters or inches.



* Series 1-3 and 1-4 are not available in 6 meter or 288 in. lengths.

** For load ratings of CSA Class C/NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages A174 to A207 of this catalogue.

Steel straight lengths

3⅝ in. straight sections/series 1-3 – Ladder, ventilated and solid trough

Technical specifications
All calculations and data are based on 42 in. wide cable trays with rungs spaced 12 inches center to center with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

3⅝ in. straight sections/series 1-3 – Ladder, ventilated and solid trough

		Support span (feet)			
Series		**6**	**8**	**10**	**12**
SP1-3 SH1-3 SS1-3	Load (lb)/ft.)	200	113	72	50
	Deflection (in.)	0.242	0.430	0.672	0.967
	Deflection factor	0.0012	0.0038	0.0093	0.0193

Straight section number selection

SH **1** **3** **24** **L09** - **3**

Material prefix
- Pregalvanized **SP**
- Hot-dipped galvanized after fabrication **SH**
- Stainless steel 316 **SS**

Series
- Series 1 **1**

Side rail height (in.)
- 3⅝ **3**

Width (in.)
- 6 **06**
- 9 **09**
- 12 **12**
- 18 **18**
- 24 **24**
- 30 **30**
- 36 **36**
- 42 **42**

Bottom type
- 6 in. rung spacing **L06**
- 9 in. rung spacing **L09**
- 12 in. rung spacing **L12**
- Ventilated * **V**
- Solid trough **S**

Length
- 3 meters **3**
- 12 ft. **144**

* For load CSA class C3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages A174 to A207 of this catalogue.

For fittings, consult pages A48 to A98.

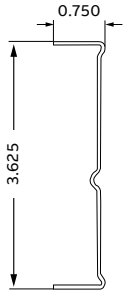
Dimensions

	SP1-3, SH1-3, SS1-3
W (in.)	Wi (in.)
6	4.5
9	7.5
12	10.5
18	16.5
24	22.5
30	28.5
36	34.5
42	40.5

Technical specifications

Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor



Series	Side rail design factors 1 pair	Classifications			
		NEMA	CSA	UL	ABS
SP1-3 SH1-3 SS1-3	Ix = 0.80 in.^{4} Sx = 0.44 in.^{3} Area = 0.49 in.^{2}	12A	C/3m	UL cross sectional area : 0.40 in.^{2}	Stainless steel only

Steel straight lengths

4 in. straight sections/series 1-4, 3-4 – Ladder, ventilated and solid trough

Technical specifications
All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

4 in. straight sections/series 1-4, 3-4 – Ladder, ventilated and solid trough

		Support span (feet)							
Series		**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
SP1-4 SH1-4 SS1-4	Load (lb)/ft.)	420	236	151	105	–	–	–	–
	Deflection (in.)	0.207	0.368	0.574	0.827	–	–	–	–
	Deflection factor	0.0005	0.0016	0.0038	0.0079	–	–	–	–
SP3-4 SH3-4 SS3-4	Load (lb)/ft.)	556	313	200	139	102	78	62	50
	Deflection (in.)	0.243	0.432	0.674	0.971	1.322	1.727	2.185	2.698
	Deflection factor	0.0004	0.0014	0.0034	0.0070	0.0130	0.0221	0.0354	0.0540

Straight section number selection

SH **3** **4** **24** **L09** **144**

Material prefix	
Pregalvanized	**SP**
Hot-dipped galvanized after fabrication	**SH**
Stainless steel 316	**SS**

Series	
Series 1	**1**
Series 3	**3**

Side rail height (in.)	
4	**4**

Width (in.)	
6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

Bottom type	
6 in. rung spacing	**L06**
9 in. rung spacing	**L09**
12 in. rung spacing	**L12**
Ventilated **	**V**
Solid trough	**S**

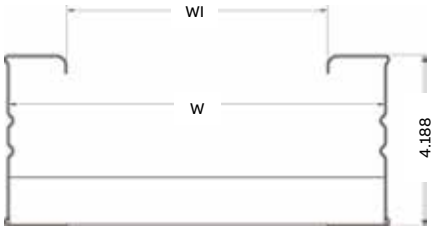
Length*	
3 meters	**3**
6 meters	**6**
12 ft.	**144**
24 ft.	**288**

* Series 1-4 not available in 6 meter or 288 in. lengths.

** For load CSA class C3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages A174 to A207 of this catalogue.

For fittings, consult pages A48 to A98.

Dimensions

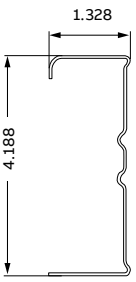


	SP1-4, SH1-4, SS1-4, SP3-4, SH3-4, SS3-4
W (in.)	Wi (in.)
6	3.34
9	6.34
12	9.34
18	15.34
24	21.34
30	27.34
36	33.34
42	39.34

Technical specifications

Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor



Series	Side rail design factors 1 pair	Classifications			
		NEMA	CSA	UL	ABS
SP1-4 SH1-4 SS1-4	Ix = 1.97 in.^{4} Sx = 0.79 in.^{3} Area = 0.68 in.^{2}	12C	D/3m	UL cross sectional area: 0.70 in.^{2}	Stainless steel only
SP3-4 SH3-4 SS3-4	Ix = 2.22 in.^{4} Sx = 1.02 in.^{3} Area = 1.08 in.^{2}	20A	D/6m	UL cross sectional area: 0.70 in.^{2}	Stainless steel only

Steel straight lengths

5 in. straight sections/series 2-5, 4-5, 5-5 – Ladder, ventilated and solid trough

Technical specifications
All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

5 in. straight sections/series 2-5, 4-5, 5-5 – Ladder, ventilated and solid trough

		Support span (feet)							
Series		**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
SP2-5 SH2-5 SS2-5	Load (lb)/ft.)	556	313	200	139	102	78	62	50
	Deflection (in.)	0.187	0.332	0.519	0.747	1.017	1.329	1.682	2.076
	Deflection factor	0.0001	0.0011	0.0026	0.0054	0.0100	0.0170	0.0272	0.0415
SP4-5 SH4-5 SS4-5	Load (lb)/ft.)	833	469	300	208	153	117	93	75
	Deflection (in.)	0.216	0.384	0.600	0.864	1.176	1.536	1.944	2.400
	Deflection factor	0.0003	0.0008	0.0020	0.0041	0.0077	0.0131	0.0211	0.0320
SP5-5 SH5-5 SS5-5	Load (lb)/ft.)	–	625	400	278	204	156	123	100
	Deflection (in.)	–	0.414	0.647	0.932	1.269	1.657	2.097	2.589
	Deflection factor	–	0.0007	0.0016	0.0034	0.0062	0.0106	0.0170	0.0259

Straight section number selection

SH **2** **5** **24** **L09** **144**

Material prefix
Pregalvanized **SP**
Hot-dipped galvanized after fabrication **SH**
Stainless steel 316 **SS**

Series
Series 2 **2**
Series 4 **4**
Series 5 **5**

Side rail height (in.)
5 **5**

Width (in.)
6 **06**
9 **09**
12 **12**
18 **18**
24 **24**
30 **30**
36 **36**
42 **42**

Bottom type
6 in. rung spacing **L06**
9 in. rung spacing **L09**
12 in. rung spacing **L12**
Ventilated **V**
Solid trough **S**

Length
3 meters **3**
6 meters **6**
12 ft. **144**
24 ft. **288**

For fittings, consult pages A48 to A98.

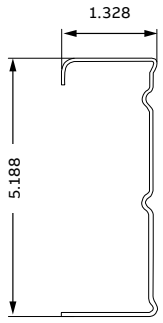
Dimensions

SP2-5, SH2-5, SS2-5, SP4-5, SH4-5, SS4-5, SP5-5, SH5-5, SS5-5	
W (in.)	Wi (in.)
6	3.34
9	6.34
12	9.34
18	15.34
24	21.34
30	27.34
36	33.34
42	39.34

Technical specifications

Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor



Series	Side rail design factors 1 pair	Classifications			
		NEMA	CSA	UL	ABS
SP2-5 SH2-5 SS2-5	Ix = 2.89 in.^{4} Sx = 1.09 in.^{3} Area = 0.78 in.^{2}	20A	D/6m	UL cross sectional area: 0.70 in.^{2}	Stainless steel only
SP4-5 SH4-5 SS4-5	Ix = 3.75 in.^{4} Sx = 1.40 in.^{3} Area = 1.02 in.^{2}	20B	E/6m	UL cross sectional area: 1.00 in.^{2}	Stainless steel only
SP5-5 SH5-5 SS5-5	Ix = 4.64 in.^{4} Sx = 1.73 in.^{3} Area = 1.24 in.^{2}	20C	Exceeds E/6m	UL cross sectional area: 1.00 in.^{2}	Stainless steel only

Steel straight lengths

6 in. straight sections/series 1-6, 3-6, 4-6 – Ladder, ventilated and solid trough

Technical specifications
All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

6 in. straight sections/series 1-6, 3-6, 4-6 – Ladder, ventilated and solid trough

		Support span (feet)							
Series		**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
SP1-6 SH1-6 SS1-6	Load (lb)/ft.)	556	313	200	139	102	78	62	50
	Deflection (in.)	0.122	0.216	0.338	0.486	0.662	0.865	1.095	1.351
	Deflection factor	0.0002	0.0007	0.0017	0.0035	0.0065	0.0111	0.0177	0.0270
SP3-6 SH3-6 SS3-6	Load (lb)/ft.)	833	469	300	208	153	117	93	75
	Deflection (in.)	0.151	0.268	0.419	0.603	0.821	1.072	1.357	1.675
	Deflection factor	0.0002	0.0006	0.0014	0.0029	0.0054	0.0091	0.0147	0.0223
SP4-6 SH4-6 SS4-6	Load (lb)/ft.)	–	728	466	324	238	182	144	117
	Deflection (in.)	–	0.312	0.487	0.702	0.955	1.247	1.579	1.949
	Deflection factor	–	0.0004	0.0010	0.0022	0.0040	0.0069	0.0110	0.0167

Straight section number selection

SH **3** **6** **24** **L12** - **6**

Material prefix
Pregalvanized **SP**
Hot-dipped galvanized after fabrication **SH**
Stainless steel 316 **SS**

Series
Series 1 **1**
Series 3 **3**
Series 4 **4**

Side rail height (in.)
6 **6**

Width (in.)
6 **06**
9 **09**
12 **12**
18 **18**
24 **24**
30 **30**
36 **36**
42 **42**

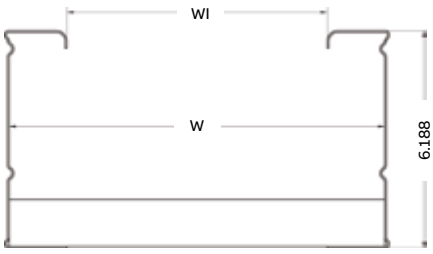
Bottom type
6 in. rung spacing **L06**
9 in. rung spacing **L09**
12 in. rung spacing **L12**
Ventilated** **V**
Solid trough **S**

Length
3 meters **3**
6 meters **6**
12 ft. **144**
24 ft. **288**

** For load ratings of CSA class C/NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages A174 to A207 of this catalogue.

For fittings, consult pages A48 to A98.

Dimensions

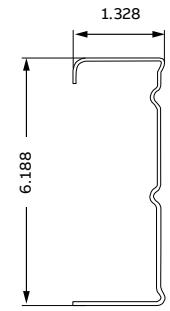


SP1-6, SH1-6, SS1-6, SP3-6, SH3-6, SS3-6, SP4-6, SH4-6, SS4-6	
W (in.)	Wi (in.)
6	3.34
9	6.34
12	9.34
18	15.34
24	21.34
30	27.34
36	33.34
42	39.34

Technical specifications

Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor



Series	Side rail design factors 1 pair	Classifications			
		NEMA	CSA	UL	ABS
SP1-6 SH1-6 SS1-6	Ix = 4.44 in.^{4} Sx = 1.39 in.^{3} Area = 0.87 in.^{2}	20A	D/6m	UL cross sectional area: 0.70 in.^{2}	Stainless steel only
SP3-6 SH3-6 SS3-6	Ix = 5.37 in.^{4} Sx = 1.7 in.^{3} Area = 1.23 in.^{2}	20B	E/6m	UL cross sectional area: 1.00 in.^{2}	Stainless steel only
SP4-6 SH4-6 SS4-6	Ix = 7.17 in.^{4} Sx = 2.25 in.^{3} Area = 1.47 in.^{2}	20C	Exceeds E/6m	UL cross sectional area: 1.00 in.^{2}	Stainless steel only

Steel straight lengths

7 in. straight sections/series 3-7 – Ladder, ventilated and solid trough

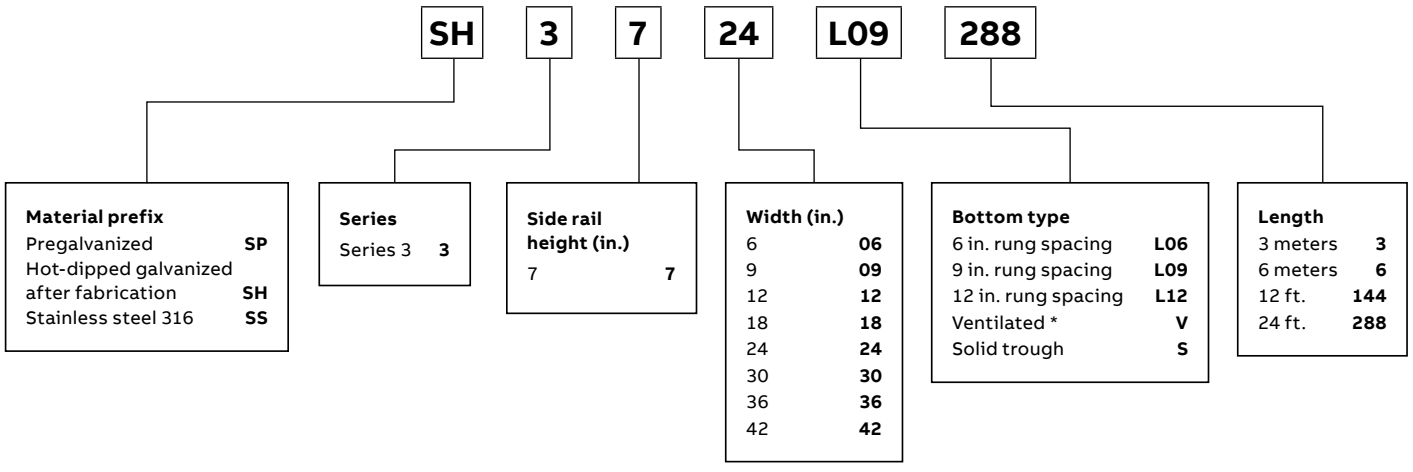
Technical specifications
All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

6 in. straight sections/series 1-6, 3-6, 4-6 – Ladder, ventilated and solid trough

		Support span (feet)							
Series		**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
SP3-7 SH3-7 SS3-7	Load (lb)/ft.)	–	750	480	333	245	188	148	120
	Deflection (in.)	–	0.221	0.346	0.498	0.678	0.885	1.120	1.383
	Deflection Factor	–	0.0003	0.0007	0.0015	0.0028	0.0047	0.0076	0.0115

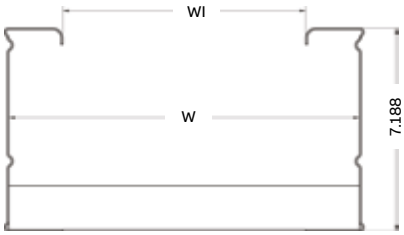
Straight section number selection



* For load ratings of CSA class C/NEMA 12C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages A174 to A207 of this catalogue.

For fittings consult, pages A48 to A98.

Dimensions

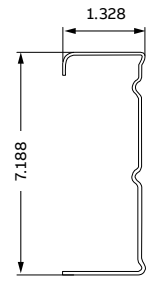


	SP3-7, SH3-7, SS3-7
W (in.)	Wi (in.)
6	3.34
9	6.34
12	9.34
18	15.34
24	21.34
30	27.34
36	33.34
42	39.34

Technical specifications

Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor



		Classifications			
Series	Side rail design factors 1 pair	NEMA	CSA	UL	ABS
SP3-7 SH3-7 SS3-7	Ix = 10.41 in.^{4} Sx = 2.82 in.^{3} Area = 1.54 in.^{2}	Exceeds 20C	Exceeds E/6m	UL cross sectional area: 1.50 in.^{2}	Stainless steel only

Steel fittings

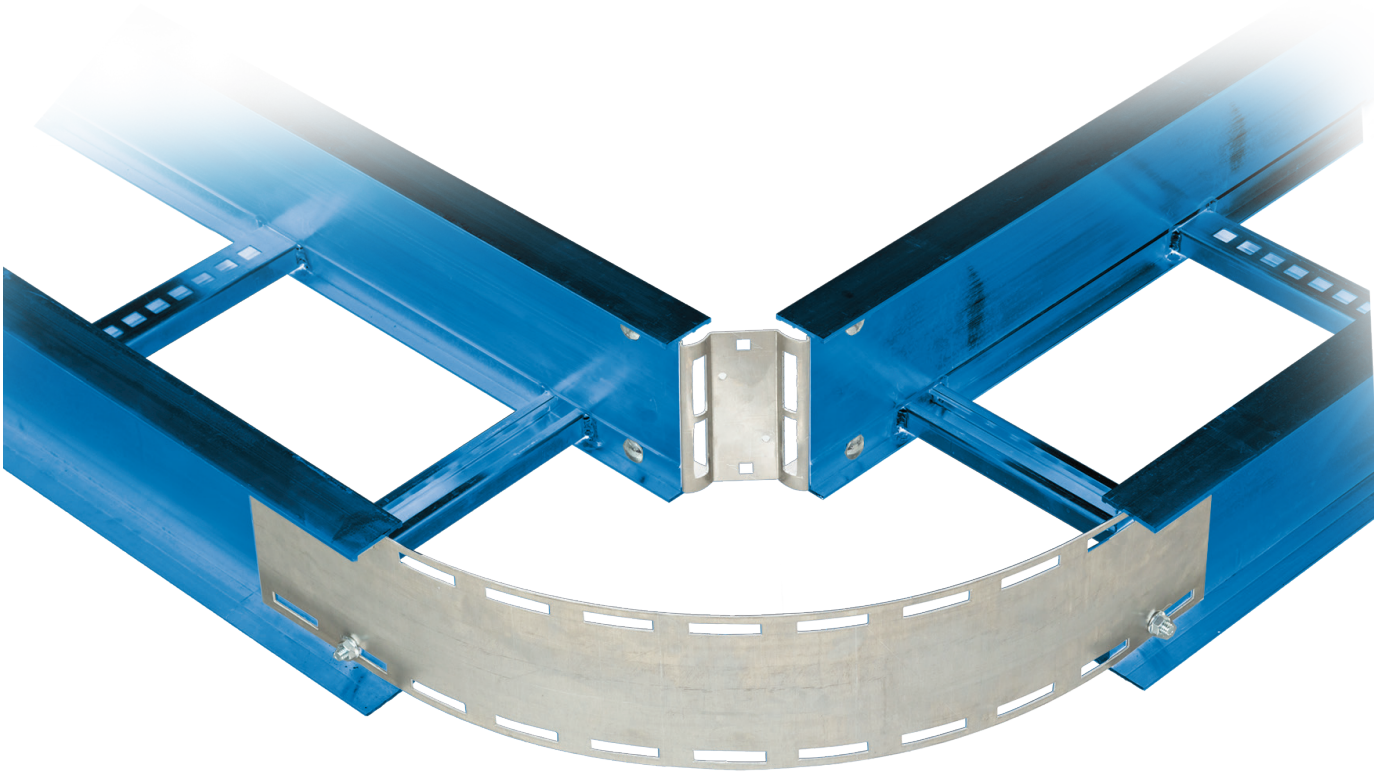
Introducing our new flexible coupler

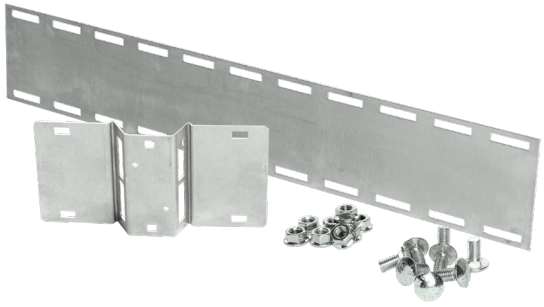
Exterior strap provides accurate radius to meet your cable tray design requirements.
The flexible coupler provides easy installation without measuring and cutting cable tray side rails. Once installed, the coupler allows for electrical continuity, therefore eliminating the requirement for a bonding jumper.

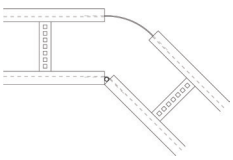
- Formed ribs provide better cable protection
- Fast and easy installation
- Meets the electrical continuity requirement of NEMA VE1 and CSA C22.2 No. 126.1

Features and benefits

- Reduces installation time
- No need for a bonding jumper
- Flexible and economical alternative to regular AU/AH fitting







Steel fittings

Flexible coupler

Steel – Flexible coupler

Cat. no.	Material	Side rail height (in.)	Tray width (in.)
(Prefix)-(*)06HBP	SPW, SHW, SSW	3 to 7	06
(Prefix)-(*)09HBP	SPW, SHW, SSW	3 to 7	09
(Prefix)-(*)12HBP	SPW, SHW, SSW	3 to 7	12
(Prefix)-(*)18HBP	SPW, SHW, SSW	3 to 7	18
(Prefix)-(*)24HBP	SPW, SHW, SSW	3 to 7	24
(Prefix)-(*)30HBP	SPW, SHW, SSW	3 to 7	30
(Prefix)-(*)36HBP	SPW, SHW, SSW	3 to 7	36

*Insert side rail height

Optional rung information (provides additional cable support)

Cat. no.	Material	Tray width (in.)
(Prefix)-R06HBP	SPW, SHW, SSW	06
(Prefix)-R09HBP	SPW, SHW, SSW	09
(Prefix)-R12HBP	SPW, SHW, SSW	12
(Prefix)-R18HBP	SPW, SHW, SSW	18
(Prefix)-R24HBP	SPW, SHW, SSW	24
(Prefix)-R30HBP	SPW, SHW, SSW	30
(Prefix)-R36HBP	SPW, SHW, SSW	36

Load rating with optional rung

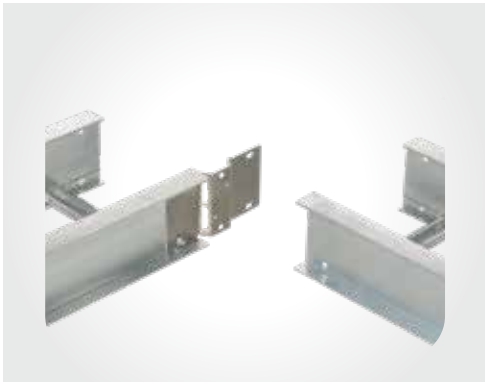
				Side rail height
Tray width	3 in. (76 mm)		4 and 5 in. (102 and 127 mm)	6 and 7 in. (152 and 178 mm)
36 in. (914 mm)	50 lb/ft. (74 kg/m)	Al: 75 lb/ft. (112 kg/m)	Steel: 50 lb/ft. (74 kg/m)	100 lb/ft. (149 kg/m)
30 in. (762 mm)	75 lb/ft. (112 kg/m)		100 lb/ft. (149 kg/m)	100 lb/ft. (149 kg/m)
6 to 24 in. (152 to 610 mm)	100 lb/ft. (149 kg/m)		100 lb/ft. (149 kg/m)	100 lb/ft. (149 kg/m)

01 Fasten flexible coupler to tray.

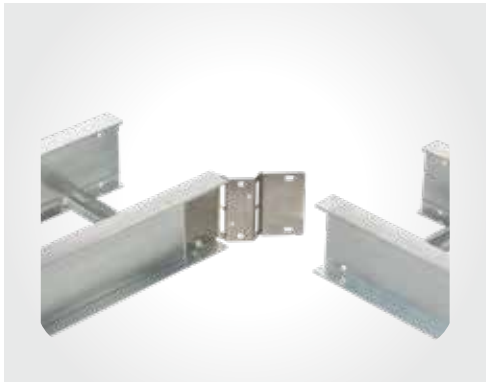
02 Bend.

03 Fasten to the other length of cable tray.

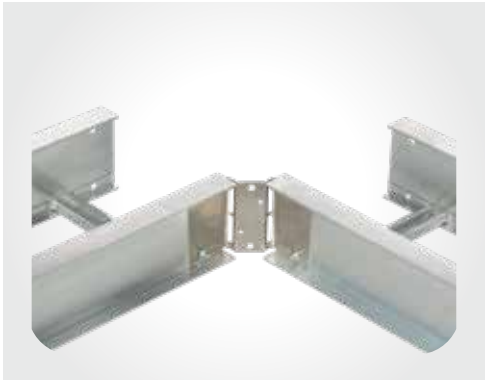
04 Fasten the strap.



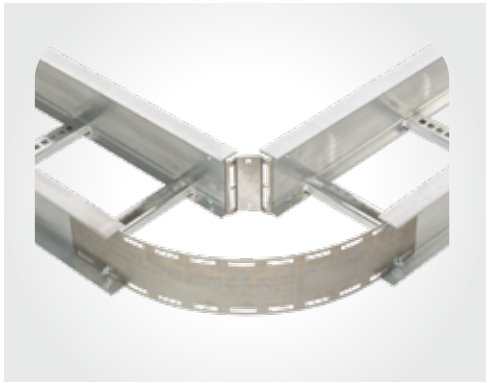
01



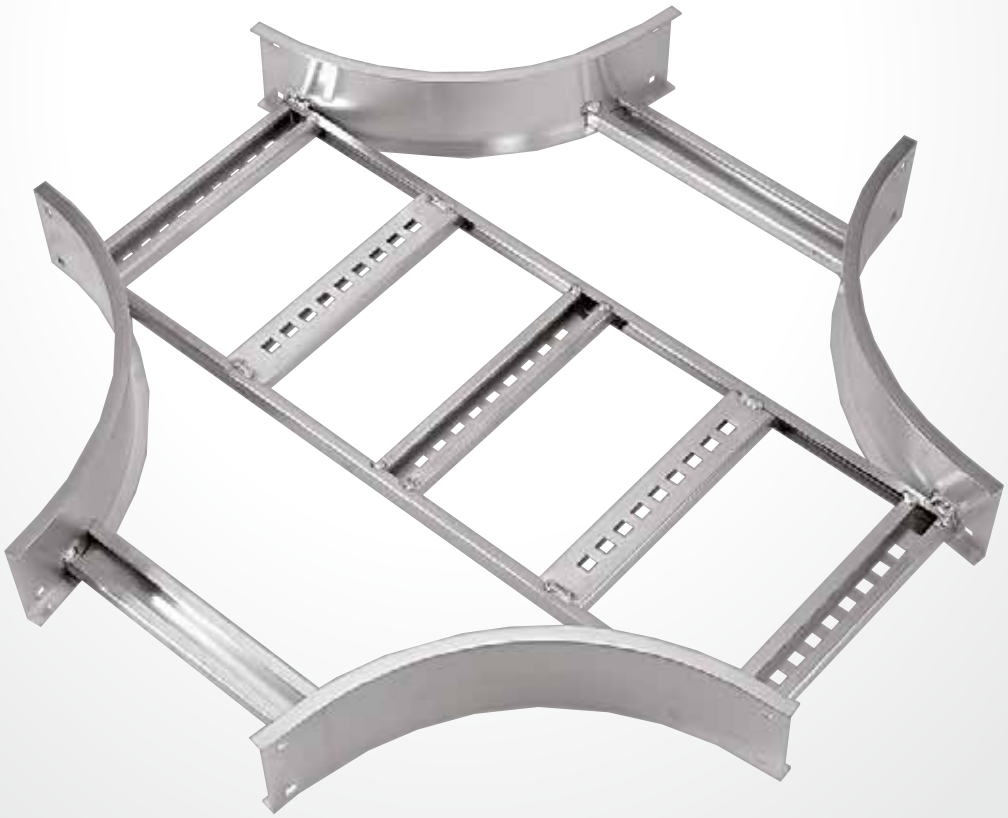
02



03

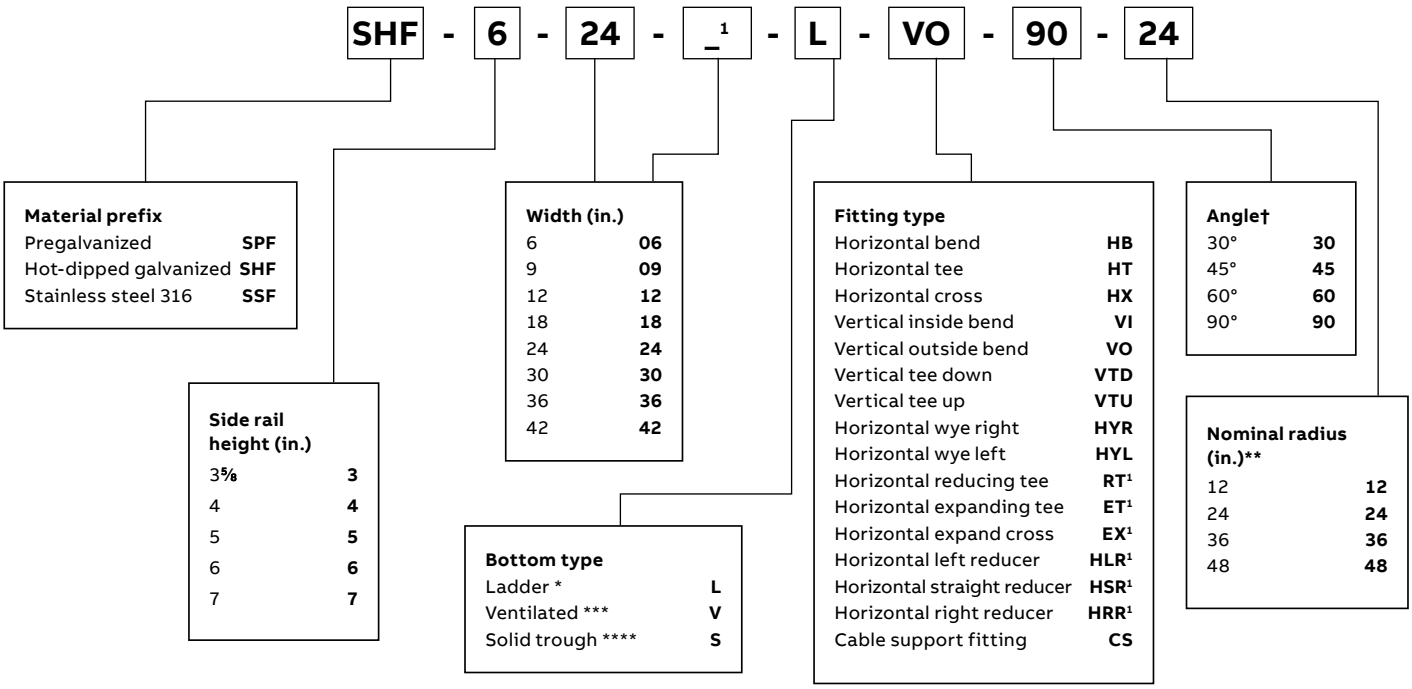


04



Steel fittings

Fittings number selection



[1] A second width is required.

—

† For HB, VI, VO fitting types only.

—

* Manufactured with 9 in. rung spacing measured at the center line of fitting.

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** Radius is not required for the following fitting types: HYR, HYL, HLR, HRR, HSR.

—

*** Manufactured with 4 in. edge-to-edge rung spacing measured at the center line of fitting.

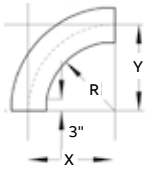
—

**** Manufactured with flat sheet inserted under rungs with 9 in. rung spacing measured at the center line of fitting.

Steel fittings

90°/60° Horizontal bend fittings

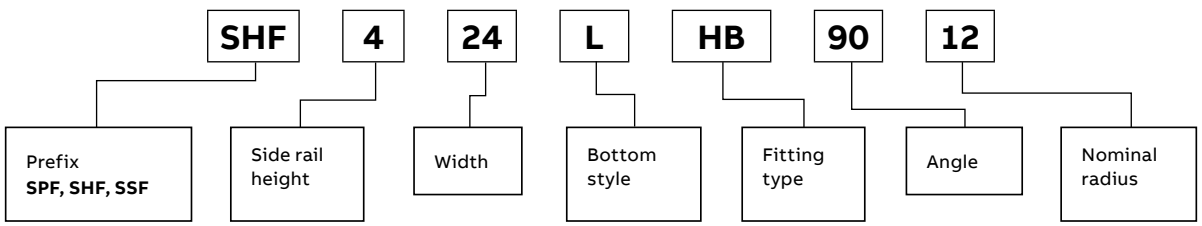
90° Horizontal bend



Nominal			Dimensions (in.)	
Radius (in.)	Width (in.)	Cat. no.	X	Y
12	6	Prefix(†)-06-(*)-HB90-12	15	15
12	9	Prefix(†)-09-(*)-HB90-12	16½	16½
12	12	Prefix(†)-12-(*)-HB90-12	18	18
12	18	Prefix(†)-18-(*)-HB90-12	21	21
12	24	Prefix(†)-24-(*)-HB90-12	24	24
12	30	Prefix(†)-30-(*)-HB90-12	27	27
12	36	Prefix(†)-36-(*)-HB90-12	30	30
12	42	Prefix(†)-42-(*)-HB90-12	33	33
24	6	Prefix(†)-06-(*)-HB90-24	27	27
24	9	Prefix(†)-09-(*)-HB90-24	28½	28½
24	12	Prefix(†)-12-(*)-HB90-24	30	30
24	18	Prefix(†)-18-(*)-HB90-24	33	33
24	24	Prefix(†)-24-(*)-HB90-24	36	36
24	30	Prefix(†)-30-(*)-HB90-24	39	39
24	36	Prefix(†)-36-(*)-HB90-24	42	42
24	42	Prefix(†)-42-(*)-HB90-24	45	45
36	6	Prefix(†)-06-(*)-HB90-36	39	39
36	9	Prefix(†)-09-(*)-HB90-36	40½	40½
36	12	Prefix(†)-12-(*)-HB90-36	42	42
36	18	Prefix(†)-18-(*)-HB90-36	45	45
36	24	Prefix(†)-24-(*)-HB90-36	48	48
36	30	Prefix(†)-30-(*)-HB90-36	51	51
36	36	Prefix(†)-36-(*)-HB90-36	54	54
36	42	Prefix(†)-42-(*)-HB90-36	57	57
48	6	Prefix(†)-06-(*)-HB90-48	51	51
48	9	Prefix(†)-09-(*)-HB90-48	52½	52½
48	12	Prefix(†)-12-(*)-HB90-48	54	54
48	18	Prefix(†)-18-(*)-HB90-48	57	57
48	24	Prefix(†)-24-(*)-HB90-48	60	60
48	30	Prefix(†)-30-(*)-HB90-48	63	63
48	36	Prefix(†)-36-(*)-HB90-48	66	66
48	42	Prefix(†)-42-(*)-HB90-48	69	69

(†) Insert side rail height (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.

Part numbering system



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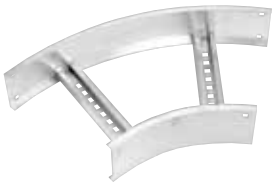
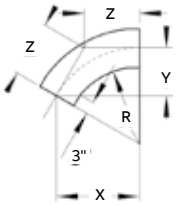
60° Horizontal bend





Nominal			Dimensions (in.)		
Radius (in.)	Width (in.)	Cat. no.	X	Y	Z
12	6	Prefix(†)-06-(*)-HB60-12	14 7/8	8 5/8	9 15/16
12	9	Prefix(†)-09-(*)-HB60-12	16 3/16	9 3/8	10 13/16
12	12	Prefix(†)-12-(*)-HB60-12	17 1/2	10 1/8	11 11/16
12	18	Prefix(†)-18-(*)-HB60-12	20 1/16	11 5/8	13 3/8
12	24	Prefix(†)-24-(*)-HB60-12	22 11/16	13 1/8	15 1/8
12	30	Prefix(†)-30-(*)-HB60-12	25 5/16	14 5/8	16 7/8
12	36	Prefix(†)-36-(*)-HB60-12	27 7/8	16 1/8	18 9/16
12	42	Prefix(†)-42-(*)-HB60-12	30 1/2	17 5/8	20 5/16
24	6	Prefix(†)-06-(*)-HB60-24	25 5/16	14 5/8	16 7/8
24	9	Prefix(†)-09-(*)-HB60-24	26 9/16	15 3/8	17 3/4
24	12	Prefix(†)-12-(*)-HB60-24	27 7/8	16 1/8	18 9/16
24	18	Prefix(†)-18-(*)-HB60-24	30 1/2	17 5/8	20 5/16
24	24	Prefix(†)-24-(*)-HB60-24	33 1/16	19 1/8	22 1/16
24	30	Prefix(†)-30-(*)-HB60-24	35 11/16	20 5/8	23 13/16
24	36	Prefix(†)-36-(*)-HB60-24	38 1/4	22 1/8	25 1/2
24	42	Prefix(†)-42-(*)-HB60-24	40 7/8	23 5/8	27 1/4
36	6	Prefix(†)-06-(*)-HB60-36	35 11/16	20 5/8	23 13/16
36	9	Prefix(†)-09-(*)-HB60-36	37	21 3/8	24 5/8
36	12	Prefix(†)-12-(*)-HB60-36	38 1/4	22 1/8	25 1/2
36	18	Prefix(†)-18-(*)-HB60-36	40 7/8	23 5/8	27 3/8
36	24	Prefix(†)-24-(*)-HB60-36	43 1/2	25 1/8	29
36	30	Prefix(†)-30-(*)-HB60-36	46 1/16	26 5/8	30 11/16
36	36	Prefix(†)-36-(*)-HB60-36	48 11/16	28 1/8	32 7/16
36	42	Prefix(†)-42-(*)-HB60-36	51 1/4	29 5/8	34 3/16
48	6	Prefix(†)-06-(*)-HB60-48	46 1/16	26 5/8	30 11/16
48	9	Prefix(†)-09-(*)-HB60-48	47 3/8	27 3/8	31 9/16
48	12	Prefix(†)-12-(*)-HB60-48	48 11/16	28 1/8	32 7/16
48	18	Prefix(†)-18-(*)-HB60-48	51 1/16	29 5/8	34 3/16
48	24	Prefix(†)-24-(*)-HB60-48	53 7/8	31 1/8	35 15/16
48	30	Prefix(†)-30-(*)-HB60-48	56 7/16	32 5/8	37 5/8
48	36	Prefix(†)-36-(*)-HB60-48	59 1/16	34 1/8	39 3/8
48	42	Prefix(†)-42-(*)-HB60-48	61 11/16	35 5/8	41 1/8

(†) Insert side rail height (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.

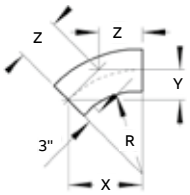
Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.
- Angle: 90°, 60°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3, 4, 5, 6, 7 in.

Steel fittings

45°/30° Horizontal bend fittings

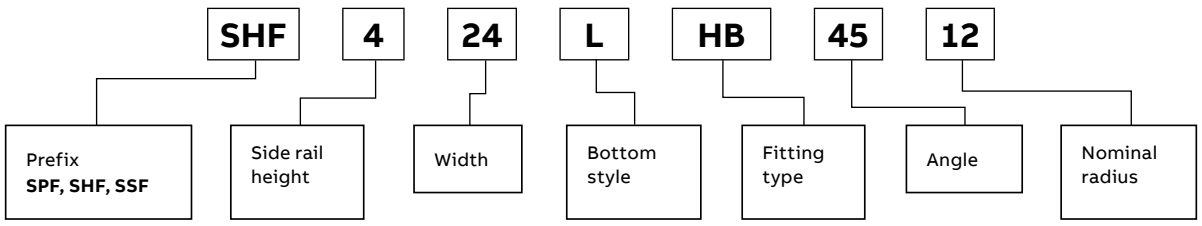
45° Horizontal bend



Nominal			Dimensions (in.)		
Radius (in.)	Width (in.)	Cat. no.	X	Y	Z
12	6	Prefix(†)-06-(*)-HB45-12	13⅝	5⅝	8
12	9	Prefix(†)-09-(*)-HB45-12	14 11/16	6 1/16	8 9/16
12	12	Prefix(†)-12-(*)-HB45-12	15¾	6½	9 3/16
12	18	Prefix(†)-18-(*)-HB45-12	17⅞	7⅜	10 7/16
12	24	Prefix(†)-24-(*)-HB45-12	20	8¼	11 11/16
12	30	Prefix(†)-30-(*)-HB45-12	22 1/16	9⅛	12 15/16
12	36	Prefix(†)-36-(*)-HB45-12	24 3/16	10	14 3/16
12	42	Prefix(†)-42-(*)-HB45-12	26 5/16	10 15/16	15 7/16
24	6	Prefix(†)-06-(*)-HB45-24	22 1/16	9⅛	12 15/16
24	9	Prefix(†)-09-(*)-HB45-24	23⅛	9 9/16	13 9/16
24	12	Prefix(†)-12-(*)-HB45-24	24 3/16	10	14 3/16
24	18	Prefix(†)-18-(*)-HB45-24	26 5/16	10 15/16	15 7/16
24	24	Prefix(†)-24-(*)-HB45-24	28 7/16	11 13/16	16 11/16
24	30	Prefix(†)-30-(*)-HB45-24	30 9/16	12 11/16	17 15/16
24	36	Prefix(†)-36-(*)-HB45-24	32 11/16	13 9/16	19⅛
24	42	Prefix(†)-42-(*)-HB45-24	34 13/16	14⅞	20⅜
36	6	Prefix(†)-06-(*)-HB45-36	30 9/16	12 11/16	17 15/16
36	9	Prefix(†)-09-(*)-HB45-36	31⅝	13⅛	18 9/16
36	12	Prefix(†)-12-(*)-HB45-36	32 11/16	13 9/16	19⅛
36	18	Prefix(†)-18-(*)-HB45-36	34 13/16	14 7/16	20⅜
36	24	Prefix(†)-24-(*)-HB45-36	36 15/16	15 5/16	21⅝
36	30	Prefix(†)-30-(*)-HB45-36	39 1/16	16 3/16	22⅞
36	36	Prefix(†)-36-(*)-HB45-36	41 3/16	17 1/16	24⅛
36	42	Prefix(†)-42-(*)-HB45-36	43 5/16	17 15/16	25⅜
48	6	Prefix(†)-06-(*)-HB45-48	39 1/16	16 3/16	22⅞
48	9	Prefix(†)-09-(*)-HB45-48	40⅛	16⅜	23½
48	12	Prefix(†)-12-(*)-HB45-48	41 3/16	17 1/16	24⅛
48	18	Prefix(†)-18-(*)-HB45-48	43 5/16	17 15/16	25⅜
48	24	Prefix(†)-24-(*)-HB45-48	45 7/16	18 13/16	26⅝
48	30	Prefix(†)-30-(*)-HB45-48	47 9/16	19 11/16	27⅞
48	36	Prefix(†)-36-(*)-HB45-48	49 11/16	20 9/16	29⅛
48	42	Prefix(†)-42-(*)-HB45-48	51 13/16	21 7/16	30 5/16

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.

Part numbering system



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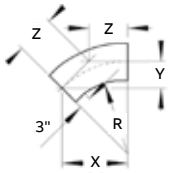
30° Horizontal bend

Nominal			Dimensions (in.)		
Radius (in.)	Width (in.)	Cat. no.	X	Y	Z
12	6	Prefix(†)-06-(*)-HB30-12	11⅝	3⅛	6³⁄₁₆
12	9	Prefix(†)-09-(*)-HB30-12	12⅜	3⁵⁄₁₆	6⅝
12	12	Prefix(†)-12-(*)-HB30-12	13½	3½	7
12	18	Prefix(†)-18-(*)-HB30-12	14⅝	3¹⁵⁄₁₆	7¹³⁄₁₆
12	24	Prefix(†)-24-(*)-HB30-12	16⅛	4⅝	8⅝
12	30	Prefix(†)-30-(*)-HB30-12	17⅝	4¹¹⁄₁₆	9⁷⁄₁₆
12	36	Prefix(†)-36-(*)-HB30-12	19⅛	5⅛	10¼
12	42	Prefix(†)-42-(*)-HB30-12	20⅝	5½	11¹⁄₁₆
24	6	Prefix(†)-06-(*)-HB30-24	17⅝	4¹¹⁄₁₆	9⁷⁄₁₆
24	9	Prefix(†)-09-(*)-HB30-24	18⅜	4¹⁵⁄₁₆	9¹³⁄₁₆
24	12	Prefix(†)-12-(*)-HB30-24	19⅛	5³⁄₁₆	10⁴⁄₁₆
24	18	Prefix(†)-18-(*)-HB30-24	20⅝	5⁹⁄₁₆	11¹⁄₁₆
24	24	Prefix(†)-24-(*)-HB30-24	22⅛	5¹⁵⁄₁₆	11¹³⁄₁₆
24	30	Prefix(†)-30-(*)-HB30-24	23⅝	6⅝₁₆	12¹⁰⁄₁₆
24	36	Prefix(†)-36-(*)-HB30-24	25⅛	6¹²⁄₁₆	13⁷⁄₁₆
24	42	Prefix(†)-42-(*)-HB30-24	26⅝	7⅛	14¼
36	6	Prefix(†)-06-(*)-HB30-36	23⅝	6⅝₁₆	12⅝
36	9	Prefix(†)-09-(*)-HB30-36	24⅜	6½	13¹⁄₁₆
36	12	Prefix(†)-12-(*)-HB30-36	25⅛	6¾	13⁷⁄₁₆
36	18	Prefix(†)-18-(*)-HB30-36	26⅝	7¼	14¼
36	24	Prefix(†)-24-(*)-HB30-36	28⅛	7½	15¹⁄₁₆
36	30	Prefix(†)-30-(*)-HB30-36	29⅝	7¹⁵⁄₁₆	15⅞
36	36	Prefix(†)-36-(*)-HB30-36	31⅛	8⅝₁₆	16¹¹⁄₁₆
36	42	Prefix(†)-42-(*)-HB30-36	32⅝	8¾	17½
48	6	Prefix(†)-06-(*)-HB30-48	29⅝	7¹⁵⁄₁₆	15⅞
48	9	Prefix(†)-09-(*)-HB30-48	30⅜	8⅛	16¼
48	12	Prefix(†)-12-(*)-HB30-48	31⅛	8⅝₁₆	16¹¹⁄₁₆
48	18	Prefix(†)-18-(*)-HB30-48	32⅝	8¾	17½
48	24	Prefix(†)-24-(*)-HB30-48	34⅛	9⅛	18¼
48	30	Prefix(†)-30-(*)-HB30-48	35⅝	9⁹⁄₁₆	19¹⁄₁₆
48	36	Prefix(†)-36-(*)-HB30-48	37⅛	9¹⁵⁄₁₆	19⅞
48	42	Prefix(†)-42-(*)-HB30-48	38⅝	10⁵⁄₁₆	20¹¹⁄₁₆



(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.

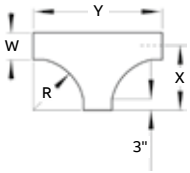
Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 45°, 30°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Steel fittings

Horizontal tee and cross fittings

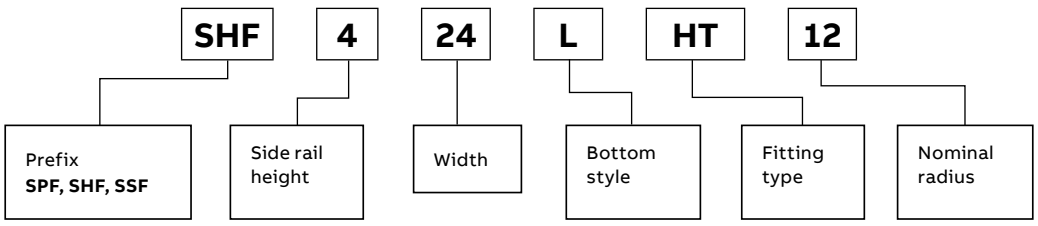
Horizontal tee



Nominal			Dimensions (in.)	
Radius (in.)	Width (in.)	Cat. no.	X	Y
12	6	Prefix(†)-06-(*)-HT12	15	30
12	9	Prefix(†)-09-(*)-HT12	16½	33
12	12	Prefix(†)-12-(*)-HT12	18	36
12	18	Prefix(†)-18-(*)-HT12	21	42
12	24	Prefix(†)-24-(*)-HT12	24	48
12	30	Prefix(†)-30-(*)-HT12	27	54
12	36	Prefix(†)-36-(*)-HT12	30	60
12	42	Prefix(†)-42-(*)-HT12	33	66
24	6	Prefix(†)-06-(*)-HT24	27	54
24	9	Prefix(†)-09-(*)-HT24	28½	57
24	12	Prefix(†)-12-(*)-HT24	30	60
24	18	Prefix(†)-18-(*)-HT24	33	66
24	24	Prefix(†)-24-(*)-HT24	36	72
24	30	Prefix(†)-30-(*)-HT24	39	78
24	36	Prefix(†)-36-(*)-HT24	42	84
24	42	Prefix(†)-42-(*)-HT24	45	90
36	6	Prefix(†)-06-(*)-HT36	39	78
36	9	Prefix(†)-09-(*)-HT36	40½	81
36	12	Prefix(†)-12-(*)-HT36	42	84
36	18	Prefix(†)-18-(*)-HT36	45	90
36	24	Prefix(†)-24-(*)-HT36	48	96
36	30	Prefix(†)-30-(*)-HT36	51	102
36	36	Prefix(†)-36-(*)-HT36	54	108
36	42	Prefix(†)-42-(*)-HT36	57	114
48	6	Prefix(†)-06-(*)-HT48	51	102
48	9	Prefix(†)-09-(*)-HT48	52½	105
48	12	Prefix(†)-12-(*)-HT48	54	108
48	18	Prefix(†)-18-(*)-HT48	57	114
48	24	Prefix(†)-24-(*)-HT48	60	120
48	30	Prefix(†)-30-(*)-HT48	63	126
48	36	Prefix(†)-36-(*)-HT48	66	132
48	42	Prefix(†)-42-(*)-HT48	69	138

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Tees include 2 pairs / crosses include 3 pairs of splice plates with hardware.
¥ Shipped with SPW-3/8HXHWK hardware kit.

Part numbering system



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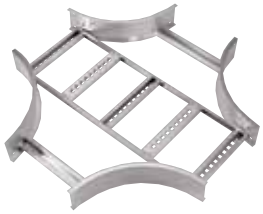
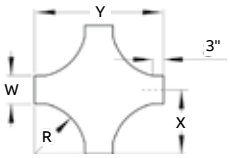
Horizontal cross





Nominal			Dimensions (in.)	
Radius (in.)	Width (in.)	Cat. no.	X	Y
12	6	Prefix(†)-06-(*)-HX12	15	30
12	9	Prefix(†)-09-(*)-HX12	16½	33
12	12	Prefix(†)-12-(*)-HX12	18	36
12	18	Prefix(†)-18-(*)-HX12	21	42
12	24	Prefix(†)-24-(*)-HX12	24	48
12	30	Prefix(†)-30-(*)-HX12	27	54
12	36	Prefix(†)-36-(*)-HX12	30	60
12	42	Prefix(†)-42-(*)-HX12	33	66
24	6	Prefix(†)-06-(*)-HX24	27	54
24	9	Prefix(†)-09-(*)-HX24	28½	57
24	12	Prefix(†)-12-(*)-HX24	30	60
24	18	Prefix(†)-18-(*)-HX24	33	66
24	24	Prefix(†)-24-(*)-HX24	36	72
24	30	Prefix(†)-30-(*)-HX24	39	78
24	36	Prefix(†)-36-(*)-HX24	42	84
24	42	Prefix(†)-42-(*)-HX24	45	90
36	6	Prefix(†)-06-(*)-HX36	39	78
36	9	Prefix(†)-09-(*)-HX36	40½	81
36	12	Prefix(†)-12-(*)-HX36	42	84
36	18	Prefix(†)-18-(*)-HX36	45	90
36	24	Prefix(†)-24-(*)-HX36	48	96
36	30¥	Prefix(†)-30-(*)-HX36	51	102
36	36¥	Prefix(†)-36-(*)-HX36	54	108
36	42¥	Prefix(†)-42-(*)-HX36	57	114
48	6	Prefix(†)-06-(*)-HX48	51	102
48	9	Prefix(†)-09-(*)-HX48	52½	105
48	12	Prefix(†)-12-(*)-HX48	54	108
48	18	Prefix(†)-18-(*)-HX48	57	114
48	24	Prefix(†)-24-(*)-HX48	60	120
48	30	Prefix(†)-30-(*)-HX48	63	126
48	36	Prefix(†)-36-(*)-HX48	66	132
48	42	Prefix(†)-42-(*)-HX48	69	138

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Tees include 2 pairs / crosses include 3 pairs of splice plates with hardware.
¥ Shipped with SPW-3/8HXHWK hardware kit.

Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

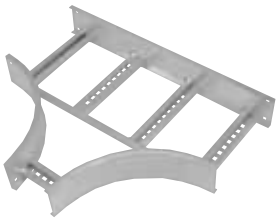
Steel fittings

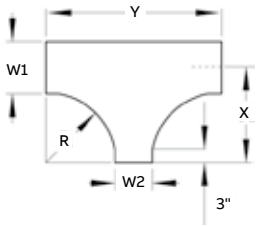
Horizontal reducing tee fittings

Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Tray widths W1: 42, 36, 30, 24, 18, 12, 9 in.
- Tray widths W2: 36, 30, 24, 18, 12, 9, 6 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Horizontal reducing tee

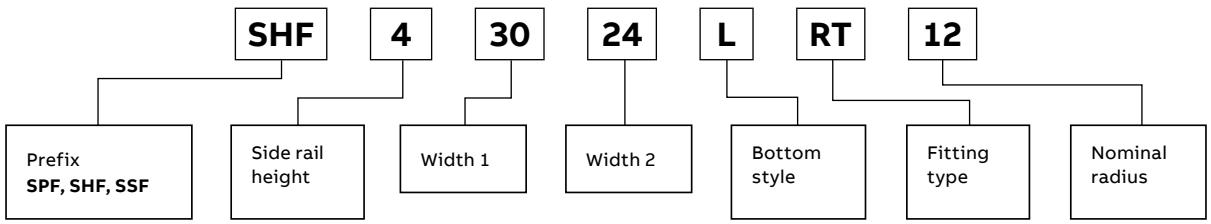




Widths (in.)			Dimensions (in.)							
			(+) 12 in. Nominal radius		(+) 24 in. Nominal radius		(+) 36 in. Nominal radius		(+) 48 in. Nominal radius	
W1	W2	Cat. no.	X	Y	X	Y	X	Y	X	Y
42	36	Prefix(†)-4236-(*)-RT(+)	33	60	45	84	57	108	69	132
42	30	Prefix(†)-4230-(*)-RT(+)	33	54	45	78	57	102	69	126
42	24	Prefix(†)-4224-(*)-RT(+)	33	48	45	72	57	96	69	120
42	18	Prefix(†)-4218-(*)-RT(+)	33	42	45	66	57	90	69	114
42	12	Prefix(†)-4212-(*)-RT(+)	33	36	45	60	57	84	69	108
42	9	Prefix(†)-4209-(*)-RT(+)	33	33	45	57	57	81	69	105
42	6	Prefix(†)-4206-(*)-RT(+)	33	30	45	54	57	78	69	102
36	30	Prefix(†)-3630-(*)-RT(+)	30	54	42	78	54	102	66	126
36	24	Prefix(†)-3624-(*)-RT(+)	30	48	42	72	54	96	66	120
36	18	Prefix(†)-3618-(*)-RT(+)	30	42	42	66	54	90	66	114
36	12	Prefix(†)-3612-(*)-RT(+)	30	36	42	60	54	84	66	108
36	9	Prefix(†)-3609-(*)-RT(+)	30	33	42	57	54	81	66	105
36	6	Prefix(†)-3606-(*)-RT(+)	30	30	42	54	54	78	66	102
30	24	Prefix(†)-3024-(*)-RT(+)	27	48	39	72	51	96	63	120
30	18	Prefix(†)-3018-(*)-RT(+)	27	42	39	66	51	90	63	114
30	12	Prefix(†)-3012-(*)-RT(+)	27	36	39	60	51	84	63	108
30	9	Prefix(†)-3009-(*)-RT(+)	27	33	39	57	51	81	63	105
30	6	Prefix(†)-3006-(*)-RT(+)	27	30	39	54	51	78	63	102
24	18	Prefix(†)-2418-(*)-RT(+)	24	42	36	66	48	90	60	114
24	12	Prefix(†)-2412-(*)-RT(+)	24	36	36	60	48	84	60	108
24	9	Prefix(†)-2409-(*)-RT(+)	24	33	36	57	48	81	60	105
24	6	Prefix(†)-2406-(*)-RT(+)	24	30	36	54	48	78	60	102
18	12	Prefix(†)-1812-(*)-RT(+)	21	36	33	60	45	84	57	108
18	9	Prefix(†)-1809-(*)-RT(+)	21	33	33	57	45	81	57	105
18	6	Prefix(†)-1806-(*)-RT(+)	21	30	33	54	45	78	57	102
12	9	Prefix(†)-1209-(*)-RT(+)	18	33	30	57	42	81	54	105
12	6	Prefix(†)-1206-(*)-RT(+)	18	30	30	54	42	78	54	102
9	6	Prefix(†)-0906-(*)-RT(+)	16½	30	28½	54	40½	78	52½	102

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. (+) Insert radius (12 in.–48 in.). Includes 2 pairs of splice plates with hardware.

Part numbering system



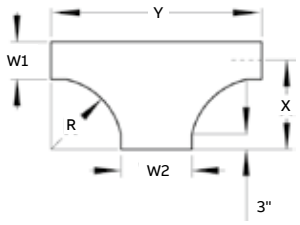
Steel fittings

Horizontal expanding tee fittings

Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
  Tray widths W1: 36, 30, 24, 18, 12, 9, 6 in.
- Tray widths W2: 42, 36, 30, 24, 18, 12, 9 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

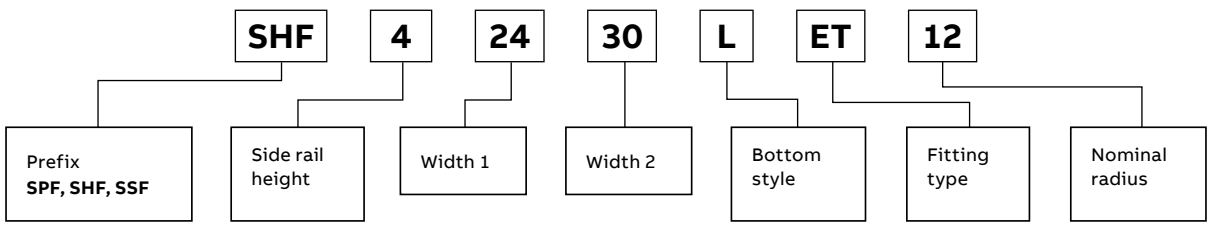
Horizontal expanding tee



Widths (in.)			Dimensions (in.)							
			(+) 12 in. Nominal radius		(+) 24 in. Nominal radius		(+) 36 in. Nominal radius		(+) 48 in. Nominal radius	
W1	W2	Cat. no.	X	Y	X	Y	X	Y	X	Y
36	42	Prefix(†)-3642-(*)-ET(+)	30	66	42	90	54	114	66	138
30	36	Prefix(†)-3036-(*)-ET(+)	27	60	39	84	51	108	63	132
30	42	Prefix(†)-3042-(*)-ET(+)	27	66	39	90	51	114	63	138
24	30	Prefix(†)-2430-(*)-ET(+)	24	54	36	78	48	102	60	126
24	36	Prefix(†)-2436-(*)-ET(+)	24	60	36	84	48	108	60	132
24	42	Prefix(†)-2442-(*)-ET(+)	24	66	36	90	48	114	60	138
18	24	Prefix(†)-1824-(*)-ET(+)	21	48	33	72	45	96	57	120
18	30	Prefix(†)-1830-(*)-ET(+)	21	54	33	78	45	102	57	126
18	36	Prefix(†)-1836-(*)-ET(+)	21	60	33	84	45	108	57	132
18	42	Prefix(†)-1842-(*)-ET(+)	21	66	33	90	45	114	57	138
12	18	Prefix(†)-1218-(*)-ET(+)	18	42	30	66	42	90	54	114
12	24	Prefix(†)-1224-(*)-ET(+)	18	48	30	72	42	96	54	120
12	30	Prefix(†)-1230-(*)-ET(+)	18	54	30	78	42	102	54	126
12	36	Prefix(†)-1236-(*)-ET(+)	18	60	30	84	42	108	54	132
12	42	Prefix(†)-1242-(*)-ET(+)	18	66	30	90	42	114	54	138
9	12	Prefix(†)-0912-(*)-ET(+)	16½	36	28½	60	40½	84	52½	108
9	18	Prefix(†)-0918-(*)-ET(+)	16½	42	28½	66	40½	90	52½	114
9	24	Prefix(†)-0924-(*)-ET(+)	16½	48	28½	72	40½	96	52½	120
9	30	Prefix(†)-0930-(*)-ET(+)	16½	54	28½	78	40½	102	52½	126
9	36	Prefix(†)-0936-(*)-ET(+)	16½	60	28½	84	40½	108	52½	132
9	42	Prefix(†)-0942-(*)-ET(+)	16½	66	28½	90	40½	114	52½	138
6	9	Prefix(†)-0609-(*)-ET(+)	15	33	27	57	39	81	51	105
6	12	Prefix(†)-0612-(*)-ET(+)	15	36	27	60	39	84	51	108
6	18	Prefix(†)-0618-(*)-ET(+)	15	42	27	66	39	90	51	114
6	24	Prefix(†)-0624-(*)-ET(+)	15	48	27	72	39	96	51	120
6	30	Prefix(†)-0630-(*)-ET(+)	15	54	27	78	39	102	51	126
6	36	Prefix(†)-0636-(*)-ET(+)	15	60	27	84	39	108	51	132
6	42	Prefix(†)-0636-(*)-ET(+)	15	66	27	90	39	114	51	138

(†) Insert side rail height. (*) Insert bottom style (+) Insert radius (12 in.–48 in.) to complete cat. no. Includes 2 pairs of splice plates with hardware.

Part numbering system



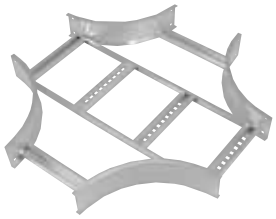
Steel fittings

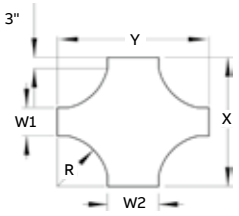
Horizontal expanding cross fittings

Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Tray widths W1: 36, 30, 24, 18, 12, 9, 6 in.
- Tray widths W2: 42, 36, 30, 24, 18, 12, 9 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Horizontal expanding cross

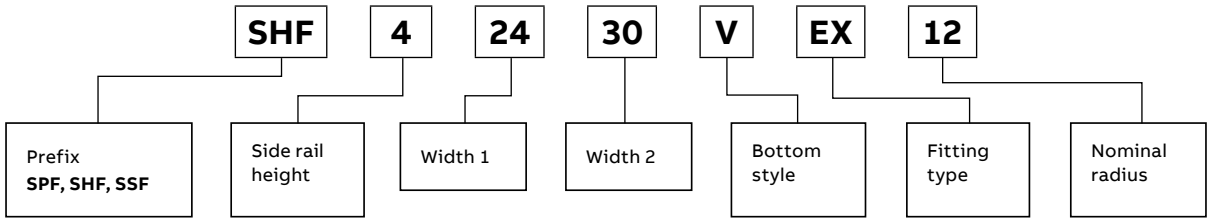




Widths (in.)			Dimensions (in.)							
			(+) 12 in. Nominal radius		(+) 24 in. Nominal radius		(+) 36 in. Nominal radius		(+) 48 in. Nominal radius	
W1	W2	Cat. no.	X	Y	X	Y	X	Y	X	Y
36	42	Prefix(†)-3642-(*)-EX(+)	60	66	84	90	108	114	132	138
30	36	Prefix(†)-3036-(*)-EX(+)	54	60	78	84	102	108	126	132
30	42	Prefix(†)-3042-(*)-EX(+)	54	66	78	90	102	114	126	138
24	30	Prefix(†)-2430-(*)-EX(+)	48	54	72	78	96	102	120	126
24	36	Prefix(†)-2436-(*)-EX(+)	48	60	72	84	96	108	120	132
24	42	Prefix(†)-2442-(*)-EX(+)	48	66	72	90	96	114	120	138
18	24	Prefix(†)-1824-(*)-EX(+)	42	48	66	72	90	96	114	120
18	30	Prefix(†)-1830-(*)-EX(+)	42	54	66	78	90	102	114	126
18	36	Prefix(†)-1836-(*)-EX(+)	42	60	66	84	90	108	114	132
18	42	Prefix(†)-1842-(*)-EX(+)	42	66	66	90	90	114	114	138
12	18	Prefix(†)-1218-(*)-EX(+)	36	42	60	66	84	90	108	114
12	24	Prefix(†)-1224-(*)-EX(+)	36	48	60	72	84	96	108	120
12	30	Prefix(†)-1230-(*)-EX(+)	36	54	60	78	84	102	108	126
12	36	Prefix(†)-1236-(*)-EX(+)	36	60	60	84	84	108	108	132
12	42	Prefix(†)-1242-(*)-EX(+)	36	66	60	90	84	114	108	138
9	12	Prefix(†)-0912-(*)-EX(+)	33	36	57	60	81	84	105	108
9	18	Prefix(†)-0918-(*)-EX(+)	33	42	57	66	81	90	105	114
9	24	Prefix(†)-0924-(*)-EX(+)	33	48	57	72	81	96	105	120
9	30	Prefix(†)-0930-(*)-EX(+)	33	54	57	78	81	102	105	126
9	36	Prefix(†)-0936-(*)-EX(+)	33	60	57	84	81	108	105	132
9	42	Prefix(†)-0942-(*)-EX(+)	33	66	57	90	81	114	105	138
6	9	Prefix(†)-0609-(*)-EX(+)	30	33	54	57	78	81	102	105
6	12	Prefix(†)-0612-(*)-EX(+)	30	36	54	60	78	84	102	108
6	18	Prefix(†)-0618-(*)-EX(+)	30	42	54	66	78	90	102	114
6	24	Prefix(†)-0624-(*)-EX(+)	30	48	54	72	78	96	102	120
6	30	Prefix(†)-0630-(*)-EX(+)	30	54	54	78	78	102	102	126
6	36	Prefix(†)-0636-(*)-EX(+)	30	60	54	84	78	108	102	132
6	42	Prefix(†)-0642-(*)-EX(+)	30	66	54	90	78	114	102	138

(†) Insert side rail height. (*) Insert bottom (+) Insert radius (12 in.–48 in.) style to complete cat. no. Includes 3 pairs of splice plates with hardware.

Part numbering system



Steel fittings

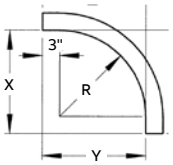
90° Vertical bend fittings

Selection guide

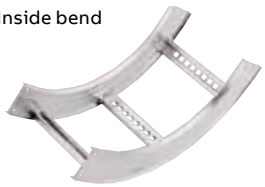
- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 90°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

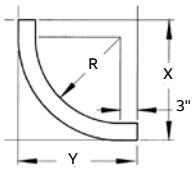
90° Vertical bends

Outside bend



Inside bend

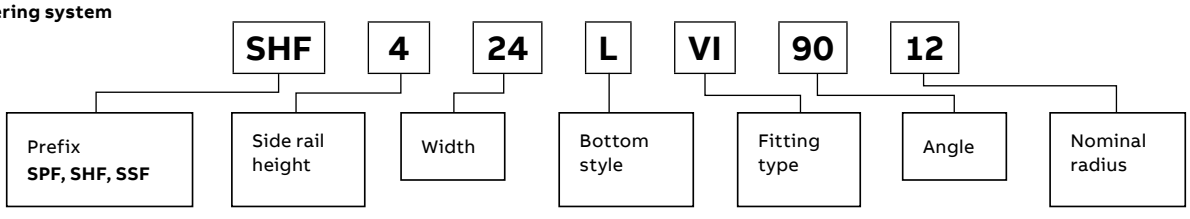




				Dimensions (in.)											
				(+) VO side rail										(+) VI side rail	
	Nominal			-⅝ in. – 7 in.		3½ in.		4 in.		5 in.		6 in.		7 in.	
	Radius (in.)	Width (in.)	Cat. no.	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
	12	6	Prefix(†)-06-(*)-(+)90-12	12	12	15⅝	15⅝	16⅜	16⅜	17⅜16	17⅜16	18⅜16	18⅜16	19⅜16	19⅜16
	12	9	Prefix(†)-09-(*)-(+)90-12	12	12	15⅝	15⅝	16⅜	16⅜	17⅜16	17⅜16	18⅜16	18⅜16	19⅜16	19⅜16
	12	12	Prefix(†)-12-(*)-(+)90-12	12	12	15⅝	15⅝	16⅜	16⅜	17⅜16	17⅜16	18⅜16	18⅜16	19⅜16	19⅜16
	12	18	Prefix(†)-18-(*)-(+)90-12	12	12	15⅝	15⅝	16⅜	16⅜	17⅜16	17⅜16	18⅜16	18⅜16	19⅜16	19⅜16
	12	24	Prefix(†)-24-(*)-(+)90-12	12	12	15⅝	15⅝	16⅜	16⅜	17⅜16	17⅜16	18⅜16	18⅜16	19⅜16	19⅜16
	12	30	Prefix(†)-30-(*)-(+)90-12	12	12	15⅝	15⅝	16⅜	16⅜	17⅜16	17⅜16	18⅜16	18⅜16	19⅜16	19⅜16
	12	36	Prefix(†)-36-(*)-(+)90-12	12	12	15⅝	15⅝	16⅜	16⅜	17⅜16	17⅜16	18⅜16	18⅜16	19⅜16	19⅜16
	12	42	Prefix(†)-42-(*)-(+)90-12	12	12	15⅝	15⅝	16⅜	16⅜	17⅜16	17⅜16	18⅜16	18⅜16	19⅜16	19⅜16
	24	6	Prefix(†)-06-(*)-(+)90-24	24	24	27⅝	27⅝	28⅜16	28⅜16	29⅜16	29⅜16	30⅜16	30⅜16	31⅜16	31⅜16
	24	9	Prefix(†)-09-(*)-(+)90-24	24	24	27⅝	27⅝	28⅜16	28⅜16	29⅜16	29⅜16	30⅜16	30⅜16	31⅜16	31⅜16
	24	12	Prefix(†)-12-(*)-(+)90-24	24	24	27⅝	27⅝	28⅜16	28⅜16	29⅜16	29⅜16	30⅜16	30⅜16	31⅜16	31⅜16
	24	18	Prefix(†)-18-(*)-(+)90-24	24	24	27⅝	27⅝	28⅜16	28⅜16	29⅜16	29⅜16	30⅜16	30⅜16	31⅜16	31⅜16
	24	24	Prefix(†)-24-(*)-(+)90-24	24	24	27⅝	27⅝	28⅜16	28⅜16	29⅜16	29⅜16	30⅜16	30⅜16	31⅜16	31⅜16
	24	30	Prefix(†)-30-(*)-(+)90-24	24	24	27⅝	27⅝	28⅜16	28⅜16	29⅜16	29⅜16	30⅜16	30⅜16	31⅜16	31⅜16
	24	36	Prefix(†)-36-(*)-(+)90-24	24	24	27⅝	27⅝	28⅜16	28⅜16	29⅜16	29⅜16	30⅜16	30⅜16	31⅜16	31⅜16
	24	42	Prefix(†)-42-(*)-(+)90-24	24	24	27⅝	27⅝	28⅜16	28⅜16	29⅜16	29⅜16	30⅜16	30⅜16	31⅜16	31⅜16
	36	6	Prefix(†)-06-(*)-(+)90-36	36	36	39⅝	39⅝	40⅜16	40⅜16	41⅜16	41⅜16	42⅜16	42⅜16	43⅜16	43⅜16
	36	9	Prefix(†)-09-(*)-(+)90-36	36	36	39⅝	39⅝	40⅜16	40⅜16	41⅜16	41⅜16	42⅜16	42⅜16	43⅜16	43⅜16
	36	12	Prefix(†)-12-(*)-(+)90-36	36	36	39⅝	39⅝	40⅜16	40⅜16	41⅜16	41⅜16	42⅜16	42⅜16	43⅜16	43⅜16
	36	18	Prefix(†)-18-(*)-(+)90-36	36	36	39⅝	39⅝	40⅜16	40⅜16	41⅜16	41⅜16	42⅜16	42⅜16	43⅜16	43⅜16
	36	24	Prefix(†)-24-(*)-(+)90-36	36	36	39⅝	39⅝	40⅜16	40⅜16	41⅜16	41⅜16	42⅜16	42⅜16	43⅜16	43⅜16
	36	30	Prefix(†)-30-(*)-(+)90-36	36	36	39⅝	39⅝	40⅜16	40⅜16	41⅜16	41⅜16	42⅜16	42⅜16	43⅜16	43⅜16
	36	36	Prefix(†)-36-(*)-(+)90-36	36	36	39⅝	39⅝	40⅜16	40⅜16	41⅜16	41⅜16	42⅜16	42⅜16	43⅜16	43⅜16
	36	42	Prefix(†)-42-(*)-(+)90-36	36	36	39⅝	39⅝	40⅜16	40⅜16	41⅜16	41⅜16	42⅜16	42⅜16	43⅜16	43⅜16
	48	6	Prefix(†)-06-(*)-(+)90-48	48	48	51⅝	51⅝	52⅜16	52⅜16	53⅜16	53⅜16	54⅜16	54⅜16	55⅜16	55⅜16
	48	9	Prefix(†)-09-(*)-(+)90-48	48	48	51⅝	51⅝	52⅜16	52⅜16	53⅜16	53⅜16	54⅜16	54⅜16	55⅜16	55⅜16
	48	12	Prefix(†)-12-(*)-(+)90-48	48	48	51⅝	51⅝	52⅜16	52⅜16	53⅜16	53⅜16	54⅜16	54⅜16	55⅜16	55⅜16
	48	18	Prefix(†)-18-(*)-(+)90-48	48	48	51⅝	51⅝	52⅜16	52⅜16	53⅜16	53⅜16	54⅜16	54⅜16	55⅜16	55⅜16
	48	24	Prefix(†)-24-(*)-(+)90-48	48	48	51⅝	51⅝	52⅜16	52⅜16	53⅜16	53⅜16	54⅜16	54⅜16	55⅜16	55⅜16
	48	30	Prefix(†)-30-(*)-(+)90-48	48	48	51⅝	51⅝	52⅜16	52⅜16	53⅜16	53⅜16	54⅜16	54⅜16	55⅜16	55⅜16
	48	36	Prefix(†)-36-(*)-(+)90-48	48	48	51⅝	51⅝	52⅜16	52⅜16	53⅜16	53⅜16	54⅜16	54⅜16	55⅜16	55⅜16
	48	42	Prefix(†)-42-(*)-(+)90-48	48	48	51⅝	51⅝	52⅜16	52⅜16	53⅜16	53⅜16	54⅜16	54⅜16	55⅜16	55⅜16

(†) Insert side rail height. (*) Insert bottom (+) Insert "VO" for vertical outside or "VI" for vertical inside style to complete cat. no. Includes 1 pair of splice plates with hardware.

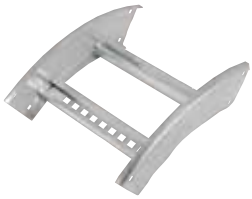
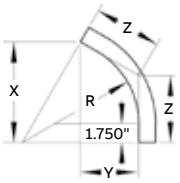
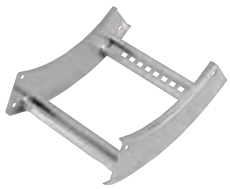
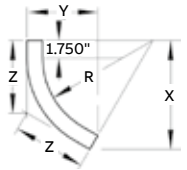
Part numbering system



Steel fittings

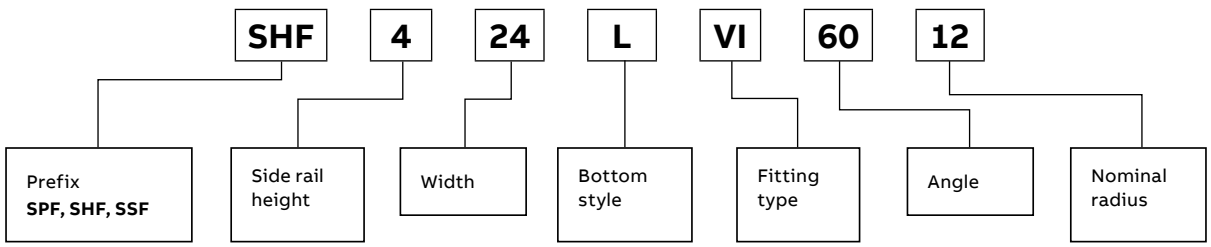
60° Vertical bend fittings

60° Vertical bends

	Nominal			Dimensions (in.)								
				(+) VO side rail						(+) VI side rail		
				3⅝ in. – 7 in.			3½ in.			4 in.		
	Radius (in.)	Width (in.)	Cat. no.	X	Y	Z	X	Y	Z	X	Y	Z
Outside bend	12	6	Prefix(†)-06-(*)-(+)60-12	10⅜	6	6 15/16	13½	9⅝	9	14	10 3/16	9⅜
	12	9	Prefix(†)-09-(*)-(+)60-12	10⅜	6	6 15/16	13½	9⅝	9	14	10 3/16	9⅜
	12	12	Prefix(†)-12-(*)-(+)60-12	10⅜	6	6 15/16	13½	9⅝	9	14	10 3/16	9⅜
	12	18	Prefix(†)-18-(*)-(+)60-12	10⅜	6	6 15/16	13½	9⅝	9	14	10 3/16	9⅜
	12	24	Prefix(†)-24-(*)-(+)60-12	10⅜	6	6 15/16	13½	9⅝	9	14	10 3/16	9⅜
	12	30	Prefix(†)-30-(*)-(+)60-12	10⅜	6	6 15/16	13½	9⅝	9	14	10 3/16	9⅜
	12	36	Prefix(†)-36-(*)-(+)60-12	10⅜	6	6 15/16	13½	9⅝	9	14	10 3/16	9⅜
	12	42	Prefix(†)-42-(*)-(+)60-12	10⅜	6	6 15/16	13½	9⅝	9	14	10 3/16	9⅜
	24	6	Prefix(†)-06-(*)-(+)60-24	20 13/16	12	13⅞	23 15/16	15⅝	15 15/16	24 7/16	16 3/16	16¼
	24	9	Prefix(†)-09-(*)-(+)60-24	20 13/16	12	13⅞	23 15/16	15⅝	15 15/16	24 7/16	16 3/16	16¼
	24	12	Prefix(†)-12-(*)-(+)60-24	20 13/16	12	13⅞	23 15/16	15⅝	15 15/16	24 7/16	16 3/16	16¼
	24	18	Prefix(†)-18-(*)-(+)60-24	20 13/16	12	13⅞	23 15/16	15⅝	15 15/16	24 7/16	16 3/16	16¼
	24	24	Prefix(†)-24-(*)-(+)60-24	20 13/16	12	13⅞	23 15/16	15⅝	15 15/16	24 7/16	16 3/16	16¼
	24	30	Prefix(†)-30-(*)-(+)60-24	20 13/16	12	13⅞	23 15/16	15⅝	15 15/16	24 7/16	16 3/16	16¼
	24	36	Prefix(†)-36-(*)-(+)60-24	20 13/16	12	13⅞	23 15/16	15⅝	15 15/16	24 7/16	16 3/16	16¼
	24	42	Prefix(†)-42-(*)-(+)60-24	20 13/16	12	13⅞	23 15/16	15⅝	15 15/16	24 7/16	16 3/16	16¼
Inside bend	36	6	Prefix(†)-06-(*)-(+)60-36	31 3/16	18	20 13/16	34 5/16	21⅝	22⅞	34 13/16	22¾	23 3/16
	36	9	Prefix(†)-09-(*)-(+)60-36	31 3/16	18	20 13/16	34 5/16	21⅝	22⅞	34 13/16	22¾	23 3/16
	36	12	Prefix(†)-12-(*)-(+)60-36	31 3/16	18	20 13/16	34 5/16	21⅝	22⅞	34 13/16	22¾	23 3/16
	36	18	Prefix(†)-18-(*)-(+)60-36	31 3/16	18	20 13/16	34 5/16	21⅝	22⅞	34 13/16	22¾	23 3/16
	36	24	Prefix(†)-24-(*)-(+)60-36	31 3/16	18	20 13/16	34 5/16	21⅝	22⅞	34 13/16	22¾	23 3/16
	36	30	Prefix(†)-30-(*)-(+)60-36	31 3/16	18	20 13/16	34 5/16	21⅝	22⅞	34 13/16	22¾	23 3/16
	36	36	Prefix(†)-36-(*)-(+)60-36	31 3/16	18	20 13/16	34 5/16	21⅝	22⅞	34 13/16	22¾	23 3/16
	36	42	Prefix(†)-42-(*)-(+)60-36	31 3/16	18	20 13/16	34 5/16	21⅝	22⅞	34 13/16	22¾	23 3/16
	48	6	Prefix(†)-06-(*)-(+)60-48	41 9/16	24	27 11/16	44 11/16	27⅝	29 13/16	45 3/16	28 3/16	30⅛
	48	9	Prefix(†)-09-(*)-(+)60-48	41 9/16	24	27 11/16	44 11/16	27⅝	29 13/16	45 3/16	28 3/16	30⅛
	48	12	Prefix(†)-12-(*)-(+)60-48	41 9/16	24	27 11/16	44 11/16	27⅝	29 13/16	45 3/16	28 3/16	30⅛
	48	18	Prefix(†)-18-(*)-(+)60-48	41 9/16	24	27 11/16	44 11/16	27⅝	29 13/16	45 3/16	28 3/16	30⅛
	48	24	Prefix(†)-24-(*)-(+)60-48	41 9/16	24	27 11/16	44 11/16	27⅝	29 13/16	45 3/16	28 3/16	30⅛
	48	30	Prefix(†)-30-(*)-(+)60-48	41 9/16	24	27 11/16	44 11/16	27⅝	29 13/16	45 3/16	28 3/16	30⅛
	48	36	Prefix(†)-36-(*)-(+)60-48	41 9/16	24	27 11/16	44 11/16	27⅝	29 13/16	45 3/16	28 3/16	30⅛
	48	42	Prefix(†)-42-(*)-(+)60-48	41 9/16	24	27 11/16	44 11/16	27⅝	29 13/16	45 3/16	28 3/16	30⅛

(†) Insert side rail height. (*) Insert bottom (+) Insert "VO" for vertical outside or "VI" for vertical inside style to complete cat. no. Includes 1 pair of splice plates with hardware.

Part numbering system



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60° Vertical bends (continued)

Nominal			Dimensions (in.) (+) VI side rail								
			5 in.			6 in.			7 in.		
Radius (in.)	Width (in.)	Cat. no.	X	Y	Z	X	Y	Z	X	Y	Z
12	6	Prefix(†)-06-(*)-(+)60-12	14 7/8	11 3/16	9 15/16	15 3/4	12 3/16	10 1/2	16 5/8	13 3/16	11 1/16
12	9	Prefix(†)-09-(*)-(+)60-12	14 7/8	11 3/16	9 15/16	15 3/4	12 3/16	10 1/2	16 5/8	13 3/16	11 1/16
12	12	Prefix(†)-12-(*)-(+)60-12	14 7/8	11 3/16	9 15/16	15 3/4	12 3/16	10 1/2	16 5/8	13 3/16	11 1/16
12	18	Prefix(†)-18-(*)-(+)60-12	14 7/8	11 3/16	9 15/16	15 3/4	12 3/16	10 1/2	16 5/8	13 3/16	11 1/16
12	24	Prefix(†)-24-(*)-(+)60-12	14 7/8	11 3/16	9 15/16	15 3/4	12 3/16	10 1/2	16 5/8	13 3/16	11 1/16
12	30	Prefix(†)-30-(*)-(+)60-12	14 7/8	11 3/16	9 15/16	15 3/4	12 3/16	10 1/2	16 5/8	13 3/16	11 1/16
12	36	Prefix(†)-36-(*)-(+)60-12	14 7/8	11 3/16	9 15/16	15 3/4	12 3/16	10 1/2	16 5/8	13 3/16	11 1/16
12	42	Prefix(†)-42-(*)-(+)60-12	14 7/8	11 3/16	9 15/16	15 3/4	12 3/16	10 1/2	16 5/8	13 3/16	11 1/16
24	6	Prefix(†)-06-(*)-(+)60-24	25 1/4	17 3/16	16 7/8	26 1/8	18 3/16	17 7/16	27	19 3/16	18
24	9	Prefix(†)-09-(*)-(+)60-24	25 1/4	17 3/16	16 7/8	26 1/8	18 3/16	17 7/16	27	19 3/16	18
24	12	Prefix(†)-12-(*)-(+)60-24	25 1/4	17 3/16	16 7/8	26 1/8	18 3/16	17 7/16	27	19 3/16	18
24	18	Prefix(†)-18-(*)-(+)60-24	25 1/4	17 3/16	16 7/8	26 1/8	18 3/16	17 7/16	27	19 3/16	18
24	24	Prefix(†)-24-(*)-(+)60-24	25 1/4	17 3/16	16 7/8	26 1/8	18 3/16	17 7/16	27	19 3/16	18
24	30	Prefix(†)-30-(*)-(+)60-24	25 1/4	17 3/16	16 7/8	26 1/8	18 3/16	17 7/16	27	19 3/16	18
24	36	Prefix(†)-36-(*)-(+)60-24	25 1/4	17 3/16	16 7/8	26 1/8	18 3/16	17 7/16	27	19 3/16	18
24	42	Prefix(†)-42-(*)-(+)60-24	25 1/4	17 3/16	16 7/8	26 1/8	18 3/16	17 7/16	27	19 3/16	18
36	6	Prefix(†)-06-(*)-(+)60-36	35 11/16	23 3/16	23 3/4	36 1/2	24 3/16	24 3/8	37 7/16	25 3/16	24 15/16
36	9	Prefix(†)-09-(*)-(+)60-36	35 11/16	23 3/16	23 3/4	36 1/2	24 3/16	24 3/8	37 7/16	25 3/16	24 15/16
36	12	Prefix(†)-12-(*)-(+)60-36	35 11/16	23 3/16	23 3/4	36 1/2	24 3/16	24 3/8	37 7/16	25 3/16	24 15/16
36	18	Prefix(†)-18-(*)-(+)60-36	35 11/16	23 3/16	23 3/4	36 1/2	24 3/16	24 3/8	37 7/16	25 3/16	24 15/16
36	24	Prefix(†)-24-(*)-(+)60-36	35 11/16	23 3/16	23 3/4	36 1/2	24 3/16	24 3/8	37 7/16	25 3/16	24 15/16
36	30	Prefix(†)-30-(*)-(+)60-36	35 11/16	23 3/16	23 3/4	36 1/2	24 3/16	24 3/8	37 7/16	25 3/16	24 15/16
36	36	Prefix(†)-36-(*)-(+)60-36	35 11/16	23 3/16	23 3/4	36 1/2	24 3/16	24 3/8	37 7/16	25 3/16	24 15/16
36	42	Prefix(†)-42-(*)-(+)60-36	35 11/16	23 3/16	23 3/4	36 1/2	24 3/16	24 3/8	37 7/16	25 3/16	24 15/16
48	6	Prefix(†)-06-(*)-(+)60-48	46 1/16	29 3/16	30 11/16	46 15/16	30 3/16	31 1/8	47 13/16	31 3/16	31 7/8
48	9	Prefix(†)-09-(*)-(+)60-48	46 1/16	29 3/16	30 11/16	46 15/16	30 3/16	31 1/8	47 13/16	31 3/16	31 7/8
48	12	Prefix(†)-12-(*)-(+)60-48	46 1/16	29 3/16	30 11/16	46 15/16	30 3/16	31 1/8	47 13/16	31 3/16	31 7/8
48	18	Prefix(†)-18-(*)-(+)60-48	46 1/16	29 3/16	30 11/16	46 15/16	30 3/16	31 1/8	47 13/16	31 3/16	31 7/8
48	24	Prefix(†)-24-(*)-(+)60-48	46 1/16	29 3/16	30 11/16	46 15/16	30 3/16	31 1/8	47 13/16	31 3/16	31 7/8
48	30	Prefix(†)-30-(*)-(+)60-48	46 1/16	29 3/16	30 11/16	46 15/16	30 3/16	31 1/8	47 13/16	31 3/16	31 7/8
48	36	Prefix(†)-36-(*)-(+)60-48	46 1/16	29 3/16	30 11/16	46 15/16	30 3/16	31 1/8	47 13/16	31 3/16	31 7/8
48	42	Prefix(†)-42-(*)-(+)60-48	46 1/16	29 3/16	30 11/16	46 15/16	30 3/16	31 1/8	47 13/16	31 3/16	31 7/8

(†) Insert side rail height. (*) Insert bottom (+) Insert "VO" for vertical outside or "VI" for vertical inside style to complete cat. no. Includes 1 pair of splice plates with hardware.

Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 60°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Steel fittings

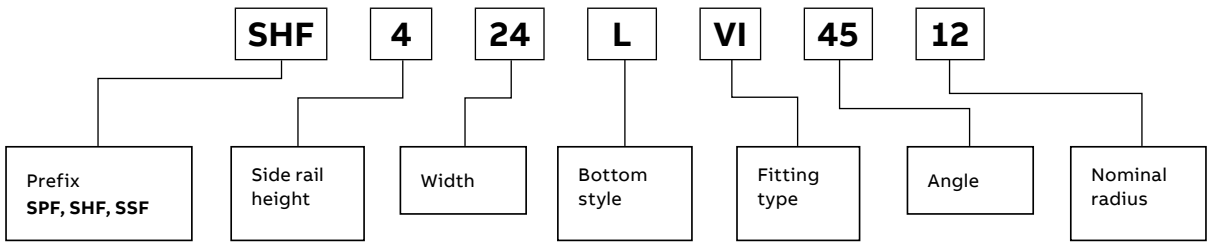
45° Vertical bend fittings

45° Vertical bends

	Nominal			Dimensions (in.)								
				(+) VO side rail						(+) VI side rail		
				3⅝ in. – 7 in.			3½ in.			4 in.		
	Radius (in.)	Width (in.)	Cat. no.	X	Y	Z	X	Y	Z	X	Y	Z
Outside bend	12	6	Prefix(†)-06-(*)-(+)45-12	8½	3½	5	11 1/16	7⅛	6½	11 7/16	7 11/16	6 11/16
	12	9	Prefix(†)-09-(*)-(+)45-12	8½	3½	5	11 1/16	7⅛	6½	11 7/16	7 11/16	6 11/16
	12	12	Prefix(†)-12-(*)-(+)45-12	8½	3½	5	11 1/16	7⅛	6½	11 7/16	7 11/16	6 11/16
	12	18	Prefix(†)-18-(*)-(+)45-12	8½	3½	5	11 1/16	7⅛	6½	11 7/16	7 11/16	6 11/16
	12	24	Prefix(†)-24-(*)-(+)45-12	8½	3½	5	11 1/16	7⅛	6½	11 7/16	7 11/16	6 11/16
	12	30	Prefix(†)-30-(*)-(+)45-12	8½	3½	5	11 1/16	7⅛	6½	11 7/16	7 11/16	6 11/16
	12	36	Prefix(†)-36-(*)-(+)45-12	8½	3½	5	11 1/16	7⅛	6½	11 7/16	7 11/16	6 11/16
	12	42	Prefix(†)-42-(*)-(+)45-12	8½	3½	5	11 1/16	7⅛	6½	11 7/16	7 11/16	6 11/16
	24	6	Prefix(†)-06-(*)-(+)45-24	17	7	9 15/16	19½	10⅝	11 7/16	19 15/16	11 3/16	11 11/16
	24	9	Prefix(†)-09-(*)-(+)45-24	17	7	9 15/16	19½	10⅝	11 7/16	19 15/16	11 3/16	11 11/16
	24	12	Prefix(†)-12-(*)-(+)45-24	17	7	9 15/16	19½	10⅝	11 7/16	19 15/16	11 3/16	11 11/16
	24	18	Prefix(†)-18-(*)-(+)45-24	17	7	9 15/16	19½	10⅝	11 7/16	19 15/16	11 3/16	11 11/16
	24	24	Prefix(†)-24-(*)-(+)45-24	17	7	9 15/16	19½	10⅝	11 7/16	19 15/16	11 3/16	11 11/16
	24	30	Prefix(†)-30-(*)-(+)45-24	17	7	9 15/16	19½	10⅝	11 7/16	19 15/16	11 3/16	11 11/16
	24	36	Prefix(†)-36-(*)-(+)45-24	17	7	9 15/16	19½	10⅝	11 7/16	19 15/16	11 3/16	11 11/16
	24	42	Prefix(†)-42-(*)-(+)45-24	17	7	9 15/16	19½	10⅝	11 7/16	19 15/16	11 3/16	11 11/16
Inside bend	36	6	Prefix(†)-06-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	28	14 3/16	16 7/16	28 7/16	14¾	16⅝
	36	9	Prefix(†)-09-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	28	14 3/16	16 7/16	28 7/16	14¾	16⅝
	36	12	Prefix(†)-12-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	28	14 3/16	16 7/16	28 7/16	14¾	16⅝
	36	18	Prefix(†)-18-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	28	14 3/16	16 7/16	28 7/16	14¾	16⅝
	36	24	Prefix(†)-24-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	28	14 3/16	16 7/16	28 7/16	14¾	16⅝
	36	30	Prefix(†)-30-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	28	14 3/16	16 7/16	28 7/16	14¾	16⅝
	36	36	Prefix(†)-36-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	28	14 3/16	16 7/16	28 7/16	14¾	16⅝
	36	42	Prefix(†)-42-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	28	14 3/16	16 7/16	28 7/16	14¾	16⅝
	48	6	Prefix(†)-06-(*)-(+)45-48	33 15/16	14 1/16	19⅞	36½	17 11/16	21⅜	36⅞	18¼	21⅝
	48	9	Prefix(†)-09-(*)-(+)45-48	33 15/16	14 1/16	19⅞	36½	17 11/16	21⅜	36⅞	18¼	21⅝
	48	12	Prefix(†)-12-(*)-(+)45-48	33 15/16	14 1/16	19⅞	36½	17 11/16	21⅜	36⅞	18¼	21⅝
	48	18	Prefix(†)-18-(*)-(+)45-48	33 15/16	14 1/16	19⅞	36½	17 11/16	21⅜	36⅞	18¼	21⅝
	48	24	Prefix(†)-24-(*)-(+)45-48	33 15/16	14 1/16	19⅞	36½	17 11/16	21⅜	36⅞	18¼	21⅝
	48	30	Prefix(†)-30-(*)-(+)45-48	33 15/16	14 1/16	19⅞	36½	17 11/16	21⅜	36⅞	18¼	21⅝
	48	36	Prefix(†)-36-(*)-(+)45-48	33 15/16	14 1/16	19⅞	36½	17 11/16	21⅜	36⅞	18¼	21⅝
	48	42	Prefix(†)-42-(*)-(+)45-48	33 15/16	14 1/16	19⅞	36½	17 11/16	21⅜	36⅞	18¼	21⅝

(†) Insert side rail height. (*) Insert bottom (+) Insert "VO" for vertical outside or "VI" for vertical inside style to complete cat. no. Includes 1 pair of splice plates with hardware.

Part numbering system



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45° Vertical bends (continued)

			Dimensions (in.)								
			(+) VI side rail								
Nominal			**5 in.**			**6 in.**			**7 in.**		
Radius (in.)	**Width (in.)**	**Cat. no.**	**X**	**Y**	**Z**	**X**	**Y**	**Z**	**X**	**Y**	**Z**
12	6	Prefix(†)-06-(*)-(+)45-12	12 1/8	8 11/16	7 1/8	12 7/8	9 11/16	7 1/2	13 9/16	10 11/16	7 15/16
12	9	Prefix(†)-09-(*)-(+)45-12	12 1/8	8 11/16	7 1/8	12 7/8	9 11/16	7 1/2	13 9/16	10 11/16	7 15/16
12	12	Prefix(†)-12-(*)-(+)45-12	12 1/8	8 11/16	7 1/8	12 7/8	9 11/16	7 1/2	13 9/16	10 11/16	7 15/16
12	18	Prefix(†)-18-(*)-(+)45-12	12 1/8	8 11/16	7 1/8	12 7/8	9 11/16	7 1/2	13 9/16	10 11/16	7 15/16
12	24	Prefix(†)-24-(*)-(+)45-12	12 1/8	8 11/16	7 1/8	12 7/8	9 11/16	7 1/2	13 9/16	10 11/16	7 15/16
12	30	Prefix(†)-30-(*)-(+)45-12	12 1/8	8 11/16	7 1/8	12 7/8	9 11/16	7 1/2	13 9/16	10 11/16	7 15/16
12	36	Prefix(†)-36-(*)-(+)45-12	12 1/8	8 11/16	7 1/8	12 7/8	9 11/16	7 1/2	13 9/16	10 11/16	7 15/16
12	42	Prefix(†)-42-(*)-(+)45-12	12 1/8	8 11/16	7 1/8	12 7/8	9 11/16	7 1/2	13 9/16	10 11/16	7 15/16
24	6	Prefix(†)-06-(*)-(+)45-24	20 5/8	12 3/16	12 1/16	21 3/8	13 3/16	12 1/2	22 1/16	14 3/16	12 15/16
24	9	Prefix(†)-09-(*)-(+)45-24	20 5/8	12 3/16	12 1/16	21 3/8	13 3/16	12 1/2	22 1/16	14 3/16	12 15/16
24	12	Prefix(†)-12-(*)-(+)45-24	20 5/8	12 3/16	12 1/16	21 3/8	13 3/16	12 1/2	22 1/16	14 3/16	12 15/16
24	18	Prefix(†)-18-(*)-(+)45-24	20 5/8	12 3/16	12 1/16	21 3/8	13 3/16	12 1/2	22 1/16	14 3/16	12 15/16
24	24	Prefix(†)-24-(*)-(+)45-24	20 5/8	12 3/16	12 1/16	21 3/8	13 3/16	12 1/2	22 1/16	14 3/16	12 15/16
24	30	Prefix(†)-30-(*)-(+)45-24	20 5/8	12 3/16	12 1/16	21 3/8	13 3/16	12 1/2	22 1/16	14 3/16	12 15/16
24	36	Prefix(†)-36-(*)-(+)45-24	20 5/8	12 3/16	12 1/16	21 3/8	13 3/16	12 1/2	22 1/16	14 3/16	12 15/16
24	42	Prefix(†)-42-(*)-(+)45-24	20 5/8	12 3/16	12 1/16	21 3/8	13 3/16	12 1/2	22 1/16	14 3/16	12 15/16
36	6	Prefix(†)-06-(*)-(+)45-36	29 1/8	15 3/4	17 1/16	29 13/16	16 3/4	17 1/2	30 1/2	17 3/4	17 7/8
36	9	Prefix(†)-09-(*)-(+)45-36	29 1/8	15 3/4	17 1/16	29 13/16	16 3/4	17 1/2	30 1/2	17 3/4	17 7/8
36	12	Prefix(†)-12-(*)-(+)45-36	29 1/8	15 3/4	17 1/16	29 13/16	16 3/4	17 1/2	30 1/2	17 3/4	17 7/8
36	18	Prefix(†)-18-(*)-(+)45-36	29 1/8	15 3/4	17 1/16	29 13/16	16 3/4	17 1/2	30 1/2	17 3/4	17 7/8
36	24	Prefix(†)-24-(*)-(+)45-36	29 1/8	15 3/4	17 1/16	29 13/16	16 3/4	17 1/2	30 1/2	17 3/4	17 7/8
36	30	Prefix(†)-30-(*)-(+)45-36	29 1/8	15 3/4	17 1/16	29 13/16	16 3/4	17 1/2	30 1/2	17 3/4	17 7/8
36	36	Prefix(†)-36-(*)-(+)45-36	29 1/8	15 3/4	17 1/16	29 13/16	16 3/4	17 1/2	30 1/2	17 3/4	17 7/8
36	42	Prefix(†)-42-(*)-(+)45-36	29 1/8	15 3/4	17 1/16	29 13/16	16 3/4	17 1/2	30 1/2	17 3/4	17 7/8
48	6	Prefix(†)-06-(*)-(+)45-48	37 5/8	19 1/4	22	39 5/16	20 1/4	22 7/16	39	21 1/4	22 7/8
48	9	Prefix(†)-09-(*)-(+)45-48	37 5/8	19 1/4	22	39 5/16	20 1/4	22 7/16	39	21 1/4	22 7/8
48	12	Prefix(†)-12-(*)-(+)45-48	37 5/8	19 1/4	22	39 5/16	20 1/4	22 7/16	39	21 1/4	22 7/8
48	18	Prefix(†)-18-(*)-(+)45-48	37 5/8	19 1/4	22	39 5/16	20 1/4	22 7/16	39	21 1/4	22 7/8
48	24	Prefix(†)-24-(*)-(+)45-48	37 5/8	19 1/4	22	39 5/16	20 1/4	22 7/16	39	21 1/4	22 7/8
48	30	Prefix(†)-30-(*)-(+)45-48	37 5/8	19 1/4	22	39 5/16	20 1/4	22 7/16	39	21 1/4	22 7/8
48	36	Prefix(†)-36-(*)-(+)45-48	37 5/8	19 1/4	22	39 5/16	20 1/4	22 7/16	39	21 1/4	22 7/8
48	42	Prefix(†)-42-(*)-(+)45-48	37 5/8	19 1/4	22	39 5/16	20 1/4	22 7/16	39	21 1/4	22 7/8

(†) Insert side rail height. (*) Insert bottom (+) Insert "VO" for vertical outside or "VI" for vertical inside style to complete cat. no. Includes 1 pair of splice plates with hardware.

Selection guide

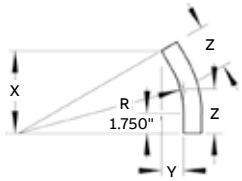
- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 45°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Steel fittings

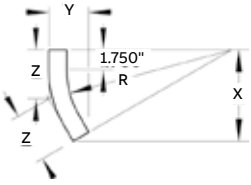
30° Vertical bend fittings

30° Vertical bends

Outside bend



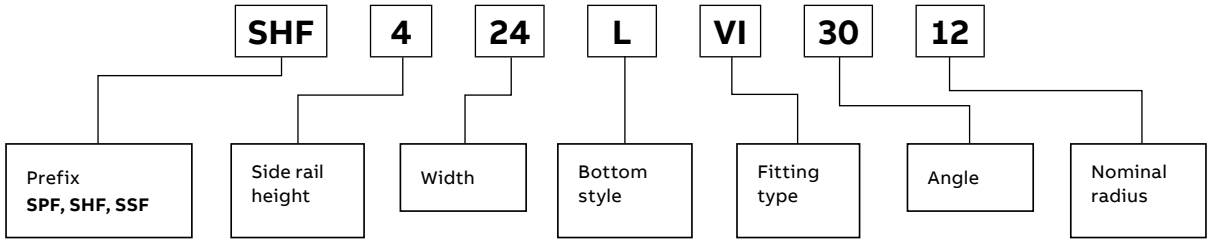
Inside bend



				Dimensions (in.)								
				(+) VO side rail						(+) VI side rail		
	Nominal			3⅝ – 7 in.			3½ in.			4 in.		
	Radius (in.)	Width (in.)	Cat. no.	X	Y	Z	X	Y	Z	X	Y	Z
	12	6	Prefix(†)-06-(*)-(+)30-12	6	1⅝	3 3/16	7 13/16	5¼	4 3/16	8 1/16	15 13/16	4 5/16
	12	9	Prefix(†)-09-(*)-(+)30-12	6	1⅝	3 3/16	7 13/16	5¼	4 3/16	8 1/16	15 13/16	4 5/16
	12	12	Prefix(†)-12-(*)-(+)30-12	6	1⅝	3 3/16	7 13/16	5¼	4 3/16	8 1/16	15 13/16	4 5/16
	12	18	Prefix(†)-18-(*)-(+)30-12	6	1⅝	3 3/16	7 13/16	5¼	4 3/16	8 1/16	15 13/16	4 5/16
	12	24	Prefix(†)-24-(*)-(+)30-12	6	1⅝	3 3/16	7 13/16	5¼	4 3/16	8 1/16	15 13/16	4 5/16
	12	30	Prefix(†)-30-(*)-(+)30-12	6	1⅝	3 3/16	7 13/16	5¼	4 3/16	8 1/16	15 13/16	4 5/16
	12	36	Prefix(†)-36-(*)-(+)30-12	6	1⅝	3 3/16	7 13/16	5¼	4 3/16	8 1/16	15 13/16	4 5/16
	12	42	Prefix(†)-42-(*)-(+)30-12	6	1⅝	3 3/16	7 13/16	5¼	4 3/16	8 1/16	15 13/16	4 5/16
	24	6	Prefix(†)-06-(*)-(+)30-24	12	3 3/16	6 7/16	13 13/16	6 13/16	7⅜	14 1/16	7⅜	7 9/16
	24	9	Prefix(†)-09-(*)-(+)30-24	12	3 3/16	6 7/16	13 13/16	6 13/16	7⅜	14 1/16	7⅜	7 9/16
	24	12	Prefix(†)-12-(*)-(+)30-24	12	3 3/16	6 7/16	13 13/16	6 13/16	7⅜	14 1/16	7⅜	7 9/16
	24	18	Prefix(†)-18-(*)-(+)30-24	12	3 3/16	6 7/16	13 13/16	6 13/16	7⅜	14 1/16	7⅜	7 9/16
	24	24	Prefix(†)-24-(*)-(+)30-24	12	3 3/16	6 7/16	13 13/16	6 13/16	7⅜	14 1/16	7⅜	7 9/16
	24	30	Prefix(†)-30-(*)-(+)30-24	12	3 3/16	6 7/16	13 13/16	6 13/16	7⅜	14 1/16	7⅜	7 9/16
	24	36	Prefix(†)-36-(*)-(+)30-24	12	3 3/16	6 7/16	13 13/16	6 13/16	7⅜	14 1/16	7⅜	7 9/16
	24	42	Prefix(†)-42-(*)-(+)30-24	12	3 3/16	6 7/16	13 13/16	6 13/16	7⅜	14 1/16	7⅜	7 9/16
	36	6	Prefix(†)-06-(*)-(+)30-36	18	4 13/16	9⅝	19 13/16	8 7/16	10⅝	20 1/16	9	10¾
	36	9	Prefix(†)-09-(*)-(+)30-36	18	4 13/16	9⅝	19 13/16	8 7/16	10⅝	20 1/16	9	10¾
	36	12	Prefix(†)-12-(*)-(+)30-36	18	4 13/16	9⅝	19 13/16	8 7/16	10⅝	20 1/16	9	10¾
	36	18	Prefix(†)-18-(*)-(+)30-36	18	4 13/16	9⅝	19 13/16	8 7/16	10⅝	20 1/16	9	10¾
	36	24	Prefix(†)-24-(*)-(+)30-36	18	4 13/16	9⅝	19 13/16	8 7/16	10⅝	20 1/16	9	10¾
	36	30	Prefix(†)-30-(*)-(+)30-36	18	4 13/16	9⅝	19 13/16	8 7/16	10⅝	20 1/16	9	10¾
	36	36	Prefix(†)-36-(*)-(+)30-36	18	4 13/16	9⅝	19 13/16	8 7/16	10⅝	20 1/16	9	10¾
	36	42	Prefix(†)-42-(*)-(+)30-36	18	4 13/16	9⅝	19 13/16	8 7/16	10⅝	20 1/16	9	10¾
	48	6	Prefix(†)-06-(*)-(+)30-48	24	6 7/16	12⅞	25 13/16	10 1/16	13 13/16	26 1/16	10⅝	14
	48	9	Prefix(†)-09-(*)-(+)30-48	24	6 7/16	12⅞	25 13/16	10 1/16	13 13/16	26 1/16	10⅝	14
	48	12	Prefix(†)-12-(*)-(+)30-48	24	6 7/16	12⅞	25 13/16	10 1/16	13 13/16	26 1/16	10⅝	14
	48	18	Prefix(†)-18-(*)-(+)30-48	24	6 7/16	12⅞	25 13/16	10 1/16	13 13/16	26 1/16	10⅝	14
	48	24	Prefix(†)-24-(*)-(+)30-48	24	6 7/16	12⅞	25 13/16	10 1/16	13 13/16	26 1/16	10⅝	14
	48	30	Prefix(†)-30-(*)-(+)30-48	24	6 7/16	12⅞	25 13/16	10 1/16	13 13/16	26 1/16	10⅝	14
	48	36	Prefix(†)-36-(*)-(+)30-48	24	6 7/16	12⅞	25 13/16	10 1/16	13 13/16	26 1/16	10⅝	14
	48	42	Prefix(†)-42-(*)-(+)30-48	24	6 7/16	12⅞	25 13/16	10 1/16	13 13/16	26 1/16	10⅝	14

(†) Insert side rail height. (*) Insert bottom (+) Insert "VO" for vertical outside or "VI" for vertical inside style to complete cat. no. Includes 1 pair of splice plates with hardware.

Part numbering system



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30° Vertical bends (continued)

Nominal			Dimensions (in.) (+) VI side rail								
			5 in.			6 in.			7 in.		
Radius (in.)	Width (in.)	Cat. no.	X	Y	Z	X	Y	Z	X	Y	Z
12	6	Prefix(†)-06-(*)-(+)30-12	8 9/16	6 13/16	4 5/8	9 1/16	7 13/16	4 7/8	9 9/16	8 13/16	5 1/8
12	9	Prefix(†)-09-(*)-(+)30-12	8 9/16	6 13/16	4 5/8	9 1/16	7 13/16	4 7/8	9 9/16	8 13/16	5 1/8
12	12	Prefix(†)-12-(*)-(+)30-12	8 9/16	6 13/16	4 5/8	9 1/16	7 13/16	4 7/8	9 9/16	8 13/16	5 1/8
12	18	Prefix(†)-18-(*)-(+)30-12	8 9/16	6 13/16	4 5/8	9 1/16	7 13/16	4 7/8	9 9/16	8 13/16	5 1/8
12	24	Prefix(†)-24-(*)-(+)30-12	8 9/16	6 13/16	4 5/8	9 1/16	7 13/16	4 7/8	9 9/16	8 13/16	5 1/8
12	30	Prefix(†)-30-(*)-(+)30-12	8 9/16	6 13/16	4 5/8	9 1/16	7 13/16	4 7/8	9 9/16	8 13/16	5 1/8
12	36	Prefix(†)-36-(*)-(+)30-12	8 9/16	6 13/16	4 5/8	9 1/16	7 13/16	4 7/8	9 9/16	8 13/16	5 1/8
12	42	Prefix(†)-42-(*)-(+)30-12	8 9/16	6 13/16	4 5/8	9 1/16	7 13/16	4 7/8	9 9/16	8 13/16	5 1/8
24	6	Prefix(†)-06-(*)-(+)30-24	14 9/16	8 3/8	7 13/16	15 1/16	9 3/8	8 1/16	15 9/16	10 3/8	8 3/8
24	9	Prefix(†)-09-(*)-(+)30-24	14 9/16	8 3/8	7 13/16	15 1/16	9 3/8	8 1/16	15 9/16	10 3/8	8 3/8
24	12	Prefix(†)-12-(*)-(+)30-24	14 9/16	8 3/8	7 13/16	15 1/16	9 3/8	8 1/16	15 9/16	10 3/8	8 3/8
24	18	Prefix(†)-18-(*)-(+)30-24	14 9/16	8 3/8	7 13/16	15 1/16	9 3/8	8 1/16	15 9/16	10 3/8	8 3/8
24	24	Prefix(†)-24-(*)-(+)30-24	14 9/16	8 3/8	7 13/16	15 1/16	9 3/8	8 1/16	15 9/16	10 3/8	8 3/8
24	30	Prefix(†)-30-(*)-(+)30-24	14 9/16	8 3/8	7 13/16	15 1/16	9 3/8	8 1/16	15 9/16	10 3/8	8 3/8
24	36	Prefix(†)-36-(*)-(+)30-24	14 9/16	8 3/8	7 13/16	15 1/16	9 3/8	8 1/16	15 9/16	10 3/8	8 3/8
24	42	Prefix(†)-42-(*)-(+)30-24	14 9/16	8 3/8	7 13/16	15 1/16	9 3/8	8 1/16	15 9/16	10 3/8	8 3/8
36	6	Prefix(†)-06-(*)-(+)30-36	20 1/16	10	11 1/16	21 1/16	11	11 5/16	21 9/16	12	11 9/16
36	9	Prefix(†)-09-(*)-(+)30-36	20 1/16	10	11 1/16	21 1/16	11	11 5/16	21 9/16	12	11 9/16
36	12	Prefix(†)-12-(*)-(+)30-36	20 1/16	10	11 1/16	21 1/16	11	11 5/16	21 9/16	12	11 9/16
36	18	Prefix(†)-18-(*)-(+)30-36	20 1/16	10	11 1/16	21 1/16	11	11 5/16	21 9/16	12	11 9/16
36	24	Prefix(†)-24-(*)-(+)30-36	20 1/16	10	11 1/16	21 1/16	11	11 5/16	21 9/16	12	11 9/16
36	30	Prefix(†)-30-(*)-(+)30-36	20 1/16	10	11 1/16	21 1/16	11	11 5/16	21 9/16	12	11 9/16
36	36	Prefix(†)-36-(*)-(+)30-36	20 1/16	10	11 1/16	21 1/16	11	11 5/16	21 9/16	12	11 9/16
36	42	Prefix(†)-42-(*)-(+)30-36	20 1/16	10	11 1/16	21 1/16	11	11 5/16	21 9/16	12	11 9/16
48	6	Prefix(†)-06-(*)-(+)30-48	26 9/16	11 5/8	14 1/4	27 1/16	12 5/8	14 1/2	27 9/16	13 5/8	14 13/16
48	9	Prefix(†)-09-(*)-(+)30-48	26 9/16	11 5/8	14 1/4	27 1/16	12 5/8	14 1/2	27 9/16	13 5/8	14 13/16
48	12	Prefix(†)-12-(*)-(+)30-48	26 9/16	11 5/8	14 1/4	27 1/16	12 5/8	14 1/2	27 9/16	13 5/8	14 13/16
48	18	Prefix(†)-18-(*)-(+)30-48	26 9/16	11 5/8	14 1/4	27 1/16	12 5/8	14 1/2	27 9/16	13 5/8	14 13/16
48	24	Prefix(†)-24-(*)-(+)30-48	26 9/16	11 5/8	14 1/4	27 1/16	12 5/8	14 1/2	27 9/16	13 5/8	14 13/16
48	30	Prefix(†)-30-(*)-(+)30-48	26 9/16	11 5/8	14 1/4	27 1/16	12 5/8	14 1/2	27 9/16	13 5/8	14 13/16
48	36	Prefix(†)-36-(*)-(+)30-48	26 9/16	11 5/8	14 1/4	27 1/16	12 5/8	14 1/2	27 9/16	13 5/8	14 13/16
48	42	Prefix(†)-42-(*)-(+)30-48	26 9/16	11 5/8	14 1/4	27 1/16	12 5/8	14 1/2	27 9/16	13 5/8	14 13/16

(†) Insert side rail height. (*) Insert bottom (+) Insert "VO" for vertical outside or "VI" for vertical inside style to complete cat. no. Includes 1 pair of splice plates with hardware.

Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 30°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Steel fittings

Reducer fittings

Offset reducer – left

Reducer – straight

Offset reducer – right

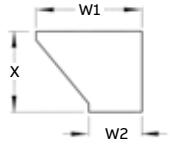
Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Tray widths W1: 42, 36, 30, 24, 18, 12, 9 in.
- Tray widths W2: 36, 30, 24, 18, 12, 9, 6 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

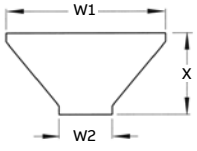
Horizontal reducer

Widths (in.)		Left reducer		Straight reducer (concentric)		Right reducer	
W1	W2	cat. no.	Dim. X (in.)	cat. no.	Dim. X (in.)	cat. no.	Dim. X (in.)
42	36	Prefix(†)-42-36-(*)-HLR	15 7/16	Prefix(†)-42-36-(*)-HSR	13 3/4	Prefix(†)-42-36-(*)-HRR	15 7/16
42	30	Prefix(†)-42-30-(*)-HLR	18 15/16	Prefix(†)-42-30-(*)-HSR	15 7/16	Prefix(†)-42-30-(*)-HRR	18 15/16
42	24	Prefix(†)-42-24-(*)-HLR	22 3/8	Prefix(†)-42-24-(*)-HSR	17 3/16	Prefix(†)-42-24-(*)-HRR	22 3/8
42	18	Prefix(†)-42-18-(*)-HLR	25 7/8	Prefix(†)-42-18-(*)-HSR	18 5/16	Prefix(†)-42-18-(*)-HRR	25 7/8
42	12	Prefix(†)-42-12-(*)-HLR	29 5/16	Prefix(†)-42-12-(*)-HSR	20 5/8	Prefix(†)-42-12-(*)-HRR	29 5/16
42	9	Prefix(†)-42-09-(*)-HLR	31 1/16	Prefix(†)-42-09-(*)-HSR	21 1/2	Prefix(†)-42-09-(*)-HRR	31 1/16
42	6	Prefix(†)-42-06-(*)-HLR	32 3/4	Prefix(†)-42-06-(*)-HSR	22 3/8	Prefix(†)-42-06-(*)-HRR	32 3/4
36	30	Prefix(†)-36-30-(*)-HLR	15 7/16	Prefix(†)-36-30-(*)-HSR	13 3/4	Prefix(†)-36-30-(*)-HRR	15 7/16
36	24	Prefix(†)-36-24-(*)-HLR	18 15/16	Prefix(†)-36-24-(*)-HSR	15 7/16	Prefix(†)-36-24-(*)-HRR	18 15/16
36	18	Prefix(†)-36-18-(*)-HLR	22 3/8	Prefix(†)-36-18-(*)-HSR	17 3/8	Prefix(†)-36-18-(*)-HRR	22 3/8
36	12	Prefix(†)-36-12-(*)-HLR	25 7/8	Prefix(†)-36-12-(*)-HSR	18 5/16	Prefix(†)-36-12-(*)-HRR	25 7/8
36	9	Prefix(†)-36-09-(*)-HLR	27 9/16	Prefix(†)-36-09-(*)-HSR	19 13/16	Prefix(†)-36-09-(*)-HRR	27 9/16
36	6	Prefix(†)-36-06-(*)-HLR	29 5/16	Prefix(†)-36-06-(*)-HSR	20 11/16	Prefix(†)-36-06-(*)-HRR	29 5/16
30	24	Prefix(†)-30-24-(*)-HLR	15 7/16	Prefix(†)-30-24-(*)-HSR	13 3/4	Prefix(†)-30-24-(*)-HRR	15 7/16
30	18	Prefix(†)-30-18-(*)-HLR	18 15/16	Prefix(†)-30-18-(*)-HSR	15 7/16	Prefix(†)-30-18-(*)-HRR	18 15/16
30	12	Prefix(†)-30-12-(*)-HLR	22 3/8	Prefix(†)-30-12-(*)-HSR	17 3/16	Prefix(†)-30-12-(*)-HRR	22 3/8
30	9	Prefix(†)-30-09-(*)-HLR	24 1/8	Prefix(†)-30-09-(*)-HSR	18 1/16	Prefix(†)-30-09-(*)-HRR	24 1/8
30	6	Prefix(†)-30-06-(*)-HLR	25 7/8	Prefix(†)-30-06-(*)-HSR	18 15/16	Prefix(†)-30-06-(*)-HRR	25 7/8
24	18	Prefix(†)-24-18-(*)-HLR	15 7/16	Prefix(†)-24-18-(*)-HSR	13 3/4	Prefix(†)-24-18-(*)-HRR	15 7/16
24	12	Prefix(†)-24-12-(*)-HLR	18 15/16	Prefix(†)-24-12-(*)-HSR	15 7/16	Prefix(†)-24-12-(*)-HRR	18 15/16
24	9	Prefix(†)-24-09-(*)-HLR	20 11/16	Prefix(†)-24-09-(*)-HSR	16 5/16	Prefix(†)-24-09-(*)-HRR	20 11/16
24	6	Prefix(†)-24-06-(*)-HLR	22 3/8	Prefix(†)-24-06-(*)-HSR	17 3/16	Prefix(†)-24-06-(*)-HRR	22 3/8
18	12	Prefix(†)-18-12-(*)-HLR	15 7/16	Prefix(†)-18-12-(*)-HSR	13 3/4	Prefix(†)-18-12-(*)-HRR	15 7/16
18	9	Prefix(†)-18-09-(*)-HLR	17 3/16	Prefix(†)-18-09-(*)-HSR	14 5/8	Prefix(†)-18-09-(*)-HRR	17 3/16
18	6	Prefix(†)-18-06-(*)-HLR	18 15/16	Prefix(†)-18-06-(*)-HSR	15 7/16	Prefix(†)-18-06-(*)-HRR	18 15/16
12	9	Prefix(†)-12-09-(*)-HLR	13 3/4	Prefix(†)-12-09-(*)-HSR	12 7/8	Prefix(†)-12-09-(*)-HRR	13 3/4
12	6	Prefix(†)-12-06-(*)-HLR	15 7/16	Prefix(†)-12-06-(*)-HSR	13 3/4	Prefix(†)-12-06-(*)-HRR	15 7/16
9	6	Prefix(†)-09-06-(*)-HLR	13 3/4	Prefix(†)-09-06-(*)-HSR	12 7/8	Prefix(†)-09-06-(*)-HRR	13 3/4

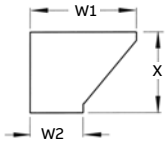
Offset reducer – left



Reducer – straight



Offset reducer – right

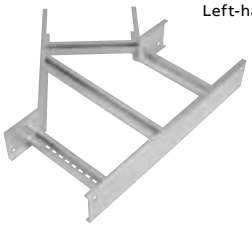


(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.

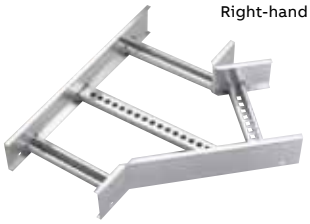
Steel fittings

45° Horizontal wye fittings

Left-hand wye



Right-hand wye



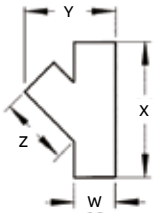
Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

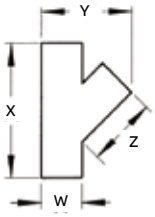
45° Horizontal wye

Width (in.)	Left-hand wye cat. no.	Right-hand wye cat. no.	Dimensions (in.) X	Y	Z
6	Prefix(†)-06-(*)-HYL	Prefix(†)-06-(*)-HYR	18 5/16	14 13/16	12 7/16
9	Prefix(†)-09-(*)-HYL	Prefix(†)-09-(*)-HYR	22 1/2	19 15/16	15 7/16
12	Prefix(†)-12-(*)-HYL	Prefix(†)-12-(*)-HYR	26 3/4	25	18 7/16
18	Prefix(†)-18-(*)-HYL	Prefix(†)-18-(*)-HYR	35 1/4	35 1/4	24 7/16
24	Prefix(†)-24-(*)-HYL	Prefix(†)-24-(*)-HYR	43 1/2	45 1/2	30 7/16
30	Prefix(†)-30-(*)-HYL	Prefix(†)-30-(*)-HYR	52 1/4	55 3/4	36 7/16
36	Prefix(†)-36-(*)-HYL	Prefix(†)-36-(*)-HYR	60 11/16	66	42 7/16
42	Prefix(†)-42-(*)-HYL	Prefix(†)-42-(*)-HYR	69 3/16	76 1/4	45 7/16

Left-hand wye

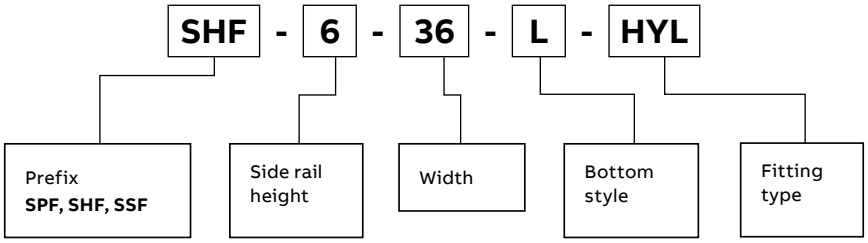


Right-hand wye

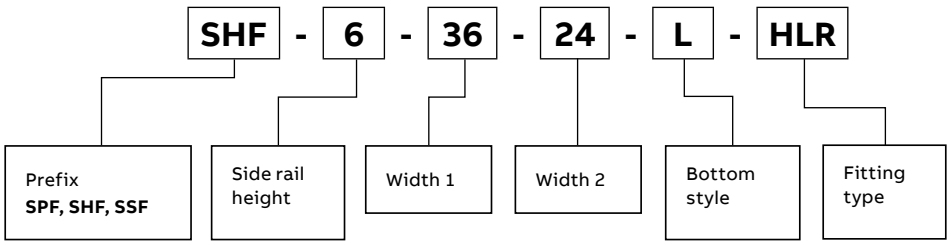


(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.

Part numbering system (45° Horizontal wye)



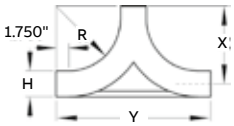
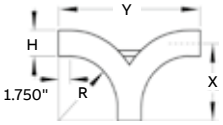
Part numbering system (Horizontal reducer – see page 146)



Steel fittings

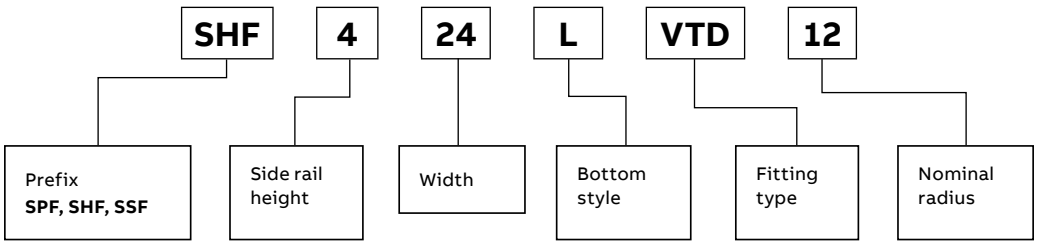
Vertical tee up/down fittings

Vertical tee up/down

	Nominal				Dimensions (in.)			
					Side rail height "H"			
					3⅝ in.		4 in.	
	Radius (in.)	Width (in.)	Vertical tee up cat. no.	Vertical tee down cat. no.	X	Y	X	Y
Up	12	6	Prefix(†)-06-(*)-VTU12	Prefix(†)-06-(*)-VTD12	13 13/16	27 5/8	14 1/8	28 3/16
	12	9	Prefix(†)-09-(*)-VTU12	Prefix(†)-09-(*)-VTD12	13 13/16	27 5/8	14 1/8	28 3/16
	12	12	Prefix(†)-12-(*)-VTU12	Prefix(†)-12-(*)-VTD12	13 13/16	27 5/8	14 1/8	28 3/16
	12	18	Prefix(†)-18-(*)-VTU12	Prefix(†)-18-(*)-VTD12	13 13/16	27 5/8	14 1/8	28 3/16
	12	24	Prefix(†)-24-(*)-VTU12	Prefix(†)-24-(*)-VTD12	13 13/16	27 5/8	14 1/8	28 3/16
	12	30	Prefix(†)-30-(*)-VTU12	Prefix(†)-30-(*)-VTD12	13 13/16	27 5/8	14 1/8	28 3/16
	12	36	Prefix(†)-36-(*)-VTU12	Prefix(†)-36-(*)-VTD12	13 13/16	27 5/8	14 1/8	28 3/16
	12	42	Prefix(†)-42-(*)-VTU12	Prefix(†)-42-(*)-VTD12	13 13/16	27 5/8	14 1/8	28 3/16
	24	6	Prefix(†)-06-(*)-VTU24	Prefix(†)-06-(*)-VTD24	25 13/16	51 5/8	26 1/8	52 3/16
	24	9	Prefix(†)-09-(*)-VTU24	Prefix(†)-09-(*)-VTD24	25 13/16	51 5/8	26 1/8	52 3/16
	24	12	Prefix(†)-12-(*)-VTU24	Prefix(†)-12-(*)-VTD24	25 13/16	51 5/8	26 1/8	52 3/16
	24	18	Prefix(†)-18-(*)-VTU24	Prefix(†)-18-(*)-VTD24	25 13/16	51 5/8	26 1/8	52 3/16
	24	24	Prefix(†)-24-(*)-VTU24	Prefix(†)-24-(*)-VTD24	25 13/16	51 5/8	26 1/8	52 3/16
	24	30	Prefix(†)-30-(*)-VTU24	Prefix(†)-30-(*)-VTD24	25 13/16	51 5/8	26 1/8	52 3/16
	24	36	Prefix(†)-36-(*)-VTU24	Prefix(†)-36-(*)-VTD24	25 13/16	51 5/8	26 1/8	52 3/16
	24	42	Prefix(†)-42-(*)-VTU24	Prefix(†)-42-(*)-VTD24	25 13/16	51 5/8	26 1/8	52 3/16
Down	36	6	Prefix(†)-06-(*)-VTU36	Prefix(†)-06-(*)-VTD36	37 13/16	75 5/8	38 1/8	76 3/16
	36	9	Prefix(†)-09-(*)-VTU36	Prefix(†)-09-(*)-VTD36	37 13/16	75 5/8	38 1/8	76 3/16
	36	12	Prefix(†)-12-(*)-VTU36	Prefix(†)-12-(*)-VTD36	37 13/16	75 5/8	38 1/8	76 3/16
	36	18	Prefix(†)-18-(*)-VTU36	Prefix(†)-18-(*)-VTD36	37 13/16	75 5/8	38 1/8	76 3/16
	36	24	Prefix(†)-24-(*)-VTU36	Prefix(†)-24-(*)-VTD36	37 13/16	75 5/8	38 1/8	76 3/16
	36	30	Prefix(†)-30-(*)-VTU36	Prefix(†)-30-(*)-VTD36	37 13/16	75 5/8	38 1/8	76 3/16
	36	36	Prefix(†)-36-(*)-VTU36	Prefix(†)-36-(*)-VTD36	37 13/16	75 5/8	38 1/8	76 3/16
	36	42	Prefix(†)-42-(*)-VTU36	Prefix(†)-42-(*)-VTD36	37 13/16	75 5/8	38 1/8	76 3/16
	48	6	Prefix(†)-06-(*)-VTU48	Prefix(†)-06-(*)-VTD48	49 13/16	99 5/8	50 1/8	100 3/16
	48	9	Prefix(†)-09-(*)-VTU48	Prefix(†)-09-(*)-VTD48	49 13/16	99 5/8	50 1/8	100 3/16
	48	12	Prefix(†)-12-(*)-VTU48	Prefix(†)-12-(*)-VTD48	49 13/16	99 5/8	50 1/8	100 3/16
	48	18	Prefix(†)-18-(*)-VTU48	Prefix(†)-18-(*)-VTD48	49 13/16	99 5/8	50 1/8	100 3/16
	48	24	Prefix(†)-24-(*)-VTU48	Prefix(†)-24-(*)-VTD48	49 13/16	99 5/8	50 1/8	100 3/16
	48	30	Prefix(†)-30-(*)-VTU48	Prefix(†)-30-(*)-VTD48	49 13/16	99 5/8	50 1/8	100 3/16
	48	36	Prefix(†)-36-(*)-VTU48	Prefix(†)-36-(*)-VTD48	49 13/16	99 5/8	50 1/8	100 3/16
	48	42	Prefix(†)-42-(*)-VTU48	Prefix(†)-42-(*)-VTD48	49 13/16	99 5/8	50 1/8	100 3/16

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.

Part numbering system



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Vertical tee up/down (continued)

Nominal				Dimensions (in.) Side rail height "H" 5 in.		6 in.		7 in.	
Radius (in.)	Width (in.)	Vertical tee up cat. no.	Vertical tee down cat. no.	X	Y	X	Y	X	Y
12	6	Prefix(†)-06-(*)-VTU12	Prefix(†)-06-(*)-VTD12	14⅝	29³⁄₁₆	15⅛	30³⁄₁₆	15⅝	31³⁄₁₆
12	9	Prefix(†)-09-(*)-VTU12	Prefix(†)-09-(*)-VTD12	14⅝	29³⁄₁₆	15⅛	30³⁄₁₆	15⅝	31³⁄₁₆
12	12	Prefix(†)-12-(*)-VTU12	Prefix(†)-12-(*)-VTD12	14⅝	29³⁄₁₆	15⅛	30³⁄₁₆	15⅝	31³⁄₁₆
12	18	Prefix(†)-18-(*)-VTU12	Prefix(†)-18-(*)-VTD12	14⅝	29³⁄₁₆	15⅛	30³⁄₁₆	15⅝	31³⁄₁₆
12	24	Prefix(†)-24-(*)-VTU12	Prefix(†)-24-(*)-VTD12	14⅝	29³⁄₁₆	15⅛	30³⁄₁₆	15⅝	31³⁄₁₆
12	30	Prefix(†)-30-(*)-VTU12	Prefix(†)-30-(*)-VTD12	14⅝	29³⁄₁₆	15⅛	30³⁄₁₆	15⅝	31³⁄₁₆
12	36	Prefix(†)-36-(*)-VTU12	Prefix(†)-36-(*)-VTD12	14⅝	29³⁄₁₆	15⅛	30³⁄₁₆	15⅝	31³⁄₁₆
12	42	Prefix(†)-42-(*)-VTU12	Prefix(†)-42-(*)-VTD12	14⅝	29³⁄₁₆	15⅛	30³⁄₁₆	15⅝	31³⁄₁₆
24	6	Prefix(†)-06-(*)-VTU24	Prefix(†)-06-(*)-VTD24	26⅝	53³⁄₁₆	27⅛	54³⁄₁₆	27⅝	55³⁄₁₆
24	9	Prefix(†)-09-(*)-VTU24	Prefix(†)-09-(*)-VTD24	26⅝	53³⁄₁₆	27⅛	54³⁄₁₆	27⅝	55³⁄₁₆
24	12	Prefix(†)-12-(*)-VTU24	Prefix(†)-12-(*)-VTD24	26⅝	53³⁄₁₆	27⅛	54³⁄₁₆	27⅝	55³⁄₁₆
24	18	Prefix(†)-18-(*)-VTU24	Prefix(†)-18-(*)-VTD24	26⅝	53³⁄₁₆	27⅛	54³⁄₁₆	27⅝	55³⁄₁₆
24	24	Prefix(†)-24-(*)-VTU24	Prefix(†)-24-(*)-VTD24	26⅝	53³⁄₁₆	27⅛	54³⁄₁₆	27⅝	55³⁄₁₆
24	30	Prefix(†)-30-(*)-VTU24	Prefix(†)-30-(*)-VTD24	26⅝	53³⁄₁₆	27⅛	54³⁄₁₆	27⅝	55³⁄₁₆
24	36	Prefix(†)-36-(*)-VTU24	Prefix(†)-36-(*)-VTD24	26⅝	53³⁄₁₆	27⅛	54³⁄₁₆	27⅝	55³⁄₁₆
24	42	Prefix(†)-42-(*)-VTU24	Prefix(†)-42-(*)-VTD24	26⅝	53³⁄₁₆	27⅛	54³⁄₁₆	27⅝	55³⁄₁₆
36	6	Prefix(†)-06-(*)-VTU36	Prefix(†)-06-(*)-VTD36	38⅝	77³⁄₁₆	39⅛	78³⁄₁₆	39⅝	79³⁄₁₆
36	9	Prefix(†)-09-(*)-VTU36	Prefix(†)-09-(*)-VTD36	38⅝	77³⁄₁₆	39⅛	78³⁄₁₆	39⅝	79³⁄₁₆
36	12	Prefix(†)-12-(*)-VTU36	Prefix(†)-12-(*)-VTD36	38⅝	77³⁄₁₆	39⅛	78³⁄₁₆	39⅝	79³⁄₁₆
36	18	Prefix(†)-18-(*)-VTU36	Prefix(†)-18-(*)-VTD36	38⅝	77³⁄₁₆	39⅛	78³⁄₁₆	39⅝	79³⁄₁₆
36	24	Prefix(†)-24-(*)-VTU36	Prefix(†)-24-(*)-VTD36	38⅝	77³⁄₁₆	39⅛	78³⁄₁₆	39⅝	79³⁄₁₆
36	30	Prefix(†)-30-(*)-VTU36	Prefix(†)-30-(*)-VTD36	38⅝	77³⁄₁₆	39⅛	78³⁄₁₆	39⅝	79³⁄₁₆
36	36	Prefix(†)-36-(*)-VTU36	Prefix(†)-36-(*)-VTD36	38⅝	77³⁄₁₆	39⅛	78³⁄₁₆	39⅝	79³⁄₁₆
36	42	Prefix(†)-42-(*)-VTU36	Prefix(†)-42-(*)-VTD36	38⅝	77³⁄₁₆	39⅛	78³⁄₁₆	39⅝	79³⁄₁₆
48	6	Prefix(†)-06-(*)-VTU48	Prefix(†)-06-(*)-VTD48	50⅝	101³⁄₁₆	51⅛	102³⁄₁₆	51⅝	103³⁄₁₆
48	9	Prefix(†)-09-(*)-VTU48	Prefix(†)-09-(*)-VTD48	50⅝	101³⁄₁₆	51⅛	102³⁄₁₆	51⅝	103³⁄₁₆
48	12	Prefix(†)-12-(*)-VTU48	Prefix(†)-12-(*)-VTD48	50⅝	101³⁄₁₆	51⅛	102³⁄₁₆	51⅝	103³⁄₁₆
48	18	Prefix(†)-18-(*)-VTU48	Prefix(†)-18-(*)-VTD48	50⅝	101³⁄₁₆	51⅛	102³⁄₁₆	51⅝	103³⁄₁₆
48	24	Prefix(†)-24-(*)-VTU48	Prefix(†)-24-(*)-VTD48	50⅝	101³⁄₁₆	51⅛	102³⁄₁₆	51⅝	103³⁄₁₆
48	30	Prefix(†)-30-(*)-VTU48	Prefix(†)-30-(*)-VTD48	50⅝	101³⁄₁₆	51⅛	102³⁄₁₆	51⅝	103³⁄₁₆
48	36	Prefix(†)-36-(*)-VTU48	Prefix(†)-36-(*)-VTD48	50⅝	101³⁄₁₆	51⅛	102³⁄₁₆	51⅝	103³⁄₁₆
48	42	Prefix(†)-42-(*)-VTU48	Prefix(†)-42-(*)-VTD48	50⅝	101³⁄₁₆	51⅛	102³⁄₁₆	51⅝	103³⁄₁₆

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.

Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Steel fittings

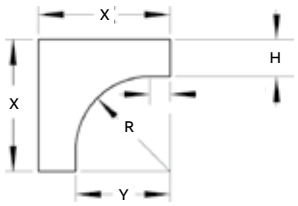
Cable support fittings

Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

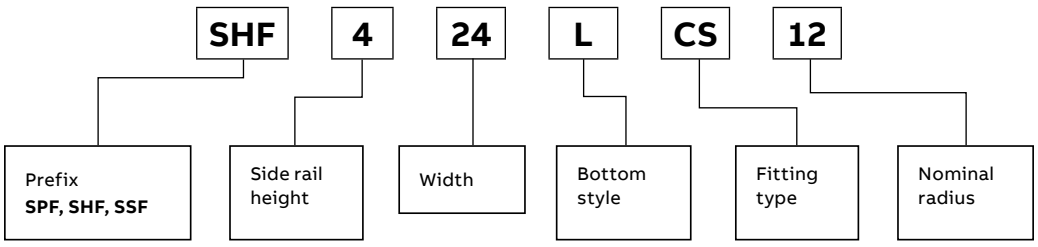
Cable support

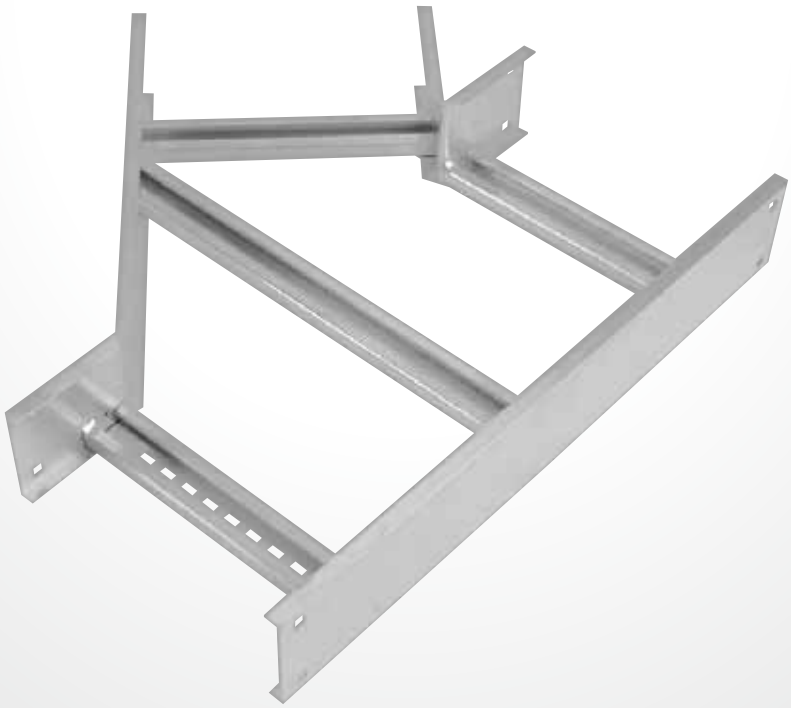
Nominal			Dimensions (in.)				
			Side rail height "H"				
Radius (in.)	Width (in.)	Cat. no.	3⅝ in.	4 in.	5 in.	6 in.	7 in.
			X				
12	6	Prefix(†)-06-(*)-CS12	15⅝	16³⁄₁₆	17³⁄₁₆	18³⁄₁₆	19³⁄₁₆
12	9	Prefix(†)-09-(*)-CS12	15⅝	16³⁄₁₆	17³⁄₁₆	18³⁄₁₆	19³⁄₁₆
12	12	Prefix(†)-12-(*)-CS12	15⅝	16³⁄₁₆	17³⁄₁₆	18³⁄₁₆	19³⁄₁₆
12	18	Prefix(†)-18-(*)-CS12	15⅝	16³⁄₁₆	17³⁄₁₆	18³⁄₁₆	19³⁄₁₆
12	24	Prefix(†)-24-(*)-CS12	15⅝	16³⁄₁₆	17³⁄₁₆	18³⁄₁₆	19³⁄₁₆
12	30	Prefix(†)-30-(*)-CS12	15⅝	16³⁄₁₆	17³⁄₁₆	18³⁄₁₆	19³⁄₁₆
12	36	Prefix(†)-36-(*)-CS12	15⅝	16³⁄₁₆	17³⁄₁₆	18³⁄₁₆	19³⁄₁₆
12	42	Prefix(†)-42-(*)-CS12	15⅝	16³⁄₁₆	17³⁄₁₆	18³⁄₁₆	19³⁄₁₆
24	6	Prefix(†)-06-(*)-CS24	27⅝	28³⁄₁₆	29³⁄₁₆	30³⁄₁₆	31³⁄₁₆
24	9	Prefix(†)-09-(*)-CS24	27⅝	28³⁄₁₆	29³⁄₁₆	30³⁄₁₆	31³⁄₁₆
24	12	Prefix(†)-12-(*)-CS24	27⅝	28³⁄₁₆	29³⁄₁₆	30³⁄₁₆	31³⁄₁₆
24	18	Prefix(†)-18-(*)-CS24	27⅝	28³⁄₁₆	29³⁄₁₆	30³⁄₁₆	31³⁄₁₆
24	24	Prefix(†)-24-(*)-CS24	27⅝	28³⁄₁₆	29³⁄₁₆	30³⁄₁₆	31³⁄₁₆
24	30	Prefix(†)-30-(*)-CS24	27⅝	28³⁄₁₆	29³⁄₁₆	30³⁄₁₆	31³⁄₁₆
24	36	Prefix(†)-36-(*)-CS24	27⅝	28³⁄₁₆	29³⁄₁₆	30³⁄₁₆	31³⁄₁₆
24	42	Prefix(†)-42-(*)-CS24	27⅝	28³⁄₁₆	29³⁄₁₆	30³⁄₁₆	31³⁄₁₆
36	6	Prefix(†)-06-(*)-CS36	39⅝	40³⁄₁₆	41³⁄₁₆	42³⁄₁₆	43³⁄₁₆
36	9	Prefix(†)-09-(*)-CS36	39⅝	40³⁄₁₆	41³⁄₁₆	42³⁄₁₆	43³⁄₁₆
36	12	Prefix(†)-12-(*)-CS36	39⅝	40³⁄₁₆	41³⁄₁₆	42³⁄₁₆	43³⁄₁₆
36	18	Prefix(†)-18-(*)-CS36	39⅝	40³⁄₁₆	41³⁄₁₆	42³⁄₁₆	43³⁄₁₆
36	24	Prefix(†)-24-(*)-CS36	39⅝	40³⁄₁₆	41³⁄₁₆	42³⁄₁₆	43³⁄₁₆
36	30	Prefix(†)-30-(*)-CS36	39⅝	40³⁄₁₆	41³⁄₁₆	42³⁄₁₆	43³⁄₁₆
36	36	Prefix(†)-36-(*)-CS36	39⅝	40³⁄₁₆	41³⁄₁₆	42³⁄₁₆	43³⁄₁₆
36	42	Prefix(†)-42-(*)-CS36	39⅝	40³⁄₁₆	41³⁄₁₆	42³⁄₁₆	43³⁄₁₆
48	6	Prefix(†)-06-(*)-CS48	51⅝	52³⁄₁₆	53³⁄₁₆	54³⁄₁₆	55³⁄₁₆
48	9	Prefix(†)-09-(*)-CS48	51⅝	52³⁄₁₆	53³⁄₁₆	54³⁄₁₆	55³⁄₁₆
48	12	Prefix(†)-12-(*)-CS48	51⅝	52³⁄₁₆	53³⁄₁₆	54³⁄₁₆	55³⁄₁₆
48	18	Prefix(†)-18-(*)-CS48	51⅝	52³⁄₁₆	53³⁄₁₆	54³⁄₁₆	55³⁄₁₆
48	24	Prefix(†)-24-(*)-CS48	51⅝	52³⁄₁₆	53³⁄₁₆	54³⁄₁₆	55³⁄₁₆
48	30	Prefix(†)-30-(*)-CS48	51⅝	52³⁄₁₆	53³⁄₁₆	54³⁄₁₆	55³⁄₁₆
48	36	Prefix(†)-36-(*)-CS48	51⅝	52³⁄₁₆	53³⁄₁₆	54³⁄₁₆	55³⁄₁₆
48	42	Prefix(†)-42-(*)-CS48	51⅝	52³⁄₁₆	53³⁄₁₆	54³⁄₁₆	55³⁄₁₆



(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.

Part numbering system





Steel fittings
Helix cable tray fitting

01 Right-turn assembly
02 Left-turn assembly

The Helix cable tray fitting. Efficiency is in its DNA

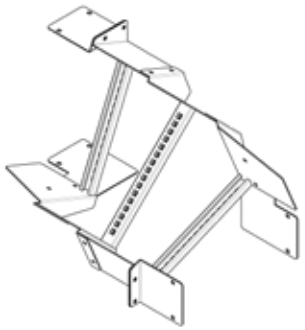
Go from horizontal to vertical, maximum cable protection, minimum space.
Making transitions from horizontal to vertical cable tray runs has never been easier or more efficient. The latest evolution in cable tray fittings, the Helix fitting assembly was developed specifically for use in confined areas. It allows installers to transition from horizontal to vertical surfaces in less time, using significantly less space.

- Enables installation close to walls and other surfaces, eliminating need for distance
- Provides enhanced cable protection in confined spaces
- Secures cables within fitting for clean, organized cable runs

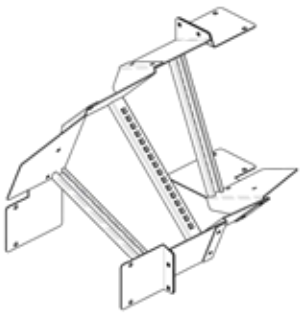
Helix cable tray fitting

Cat. no.	Material	Side rail (in.)	Width (in.)	Direction
SPF612LHVR	Pregalvanized steel	6	12	Right turn
SPF612LHVL	Pregalvanized steel	6	12	Left turn
SPF624LHVR	Pregalvanized steel	6	24	Right turn
SPF624LHVL	Pregalvanized steel	6	24	Left turn
SSF612LHVR	Stainless steel	6	12	Right turn
SSF612LHVL	Stainless steel	6	12	Left turn
SSF624LHVR	Stainless steel	6	24	Right turn
SSF624LHVL	Stainless steel	6	24	Left turn

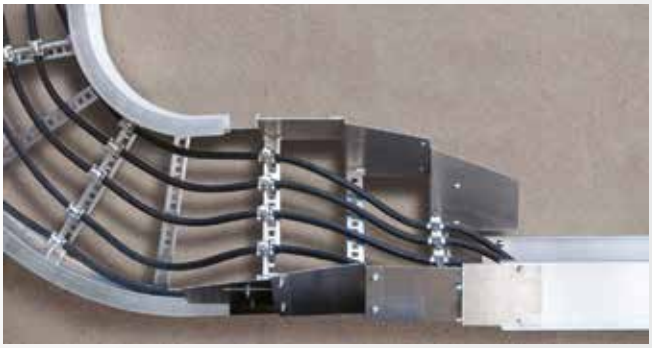
Supports should be positioned within 24" (610 mm) of each Helix fitting extremity.



01



02



Steel
Tray covers

— 01 Solid flanged
— 02 Solid non-flanged
— 3 Ventilated flanged
— 4 Peaked flanged

Tray covers
Tray covers are available for all classes of tray. They should be installed where falling objects may damage cables or where a vertical tray run is accessible by pedestrian or vehicular traffic.

Outside cable tray runs should be covered with a peaked flanged cover to protect cable from the elements and excess build up of snow and ice.

Solid covers
These covers provide maximum mechanical protection for cables with limited heat build up. Solid covers are available with or without flange. Flanged covers have ½ in. flange.

Ventilated flanged covers
This design offers excellent mechanical protection while allowing heat produced by cables to dissipate.

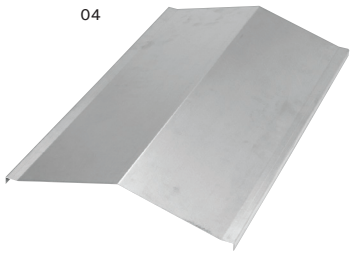
Peaked flanged covers
Peaked covers offer mechanical protection plus prevent accumulation of liquid on the cover. Peaked covers have 15° rise at the peak.

Cover mounting hardware must be ordered separately.

— 01


— 02


— 03


— 04


Straight cover number selection

(SPW | **12)** - **SNC** - **3**

Material prefix	
Pregalvanized	**SPW**
Hot-dipped galvanized*	**SHW**
Stainless steel 316	**SSW**

Width (in.)	
6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

Type	
Solid non-flanged cover	**SNC**
Solid flanged cover	**SFC**
Ventilated flanged cover	**VFC**
Peaked flanged cover	**PFC**
Peaked ventilated flanged cover	**PVC**

Length	
72 in.	**72**
3 m	**3**
120 in.	**120**
144 in.**	**144**

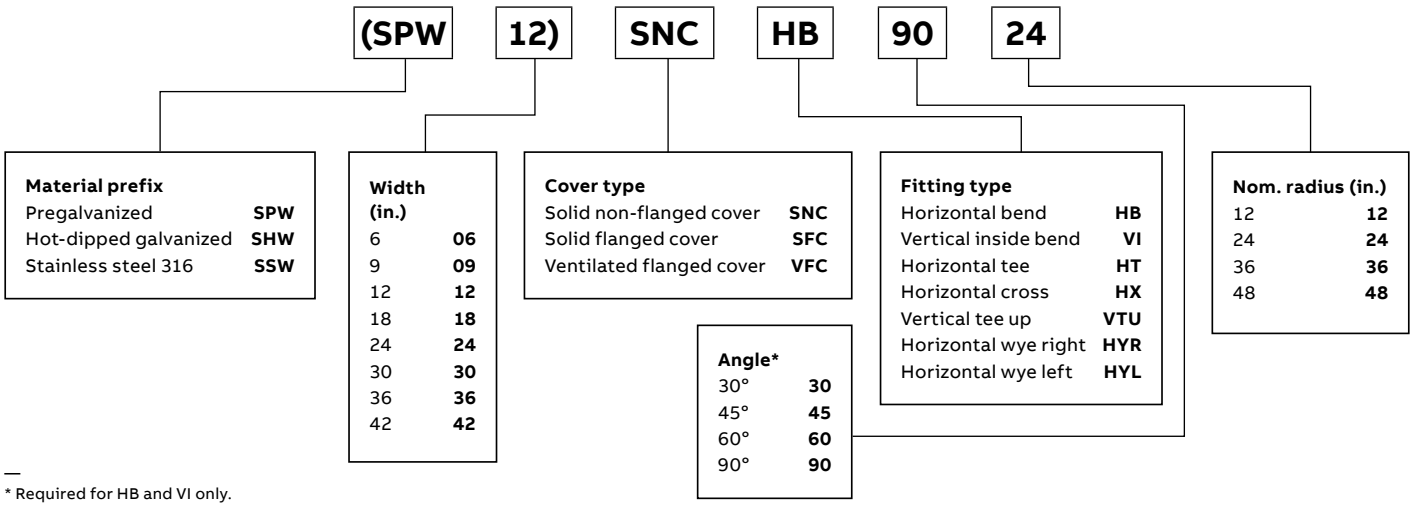
** Length 144 in. not available for VFC and PVC. Some restrictions apply on other types, validate with your CSR.

— * Hot-dipped covers only available in 72 in. and 1,500mm

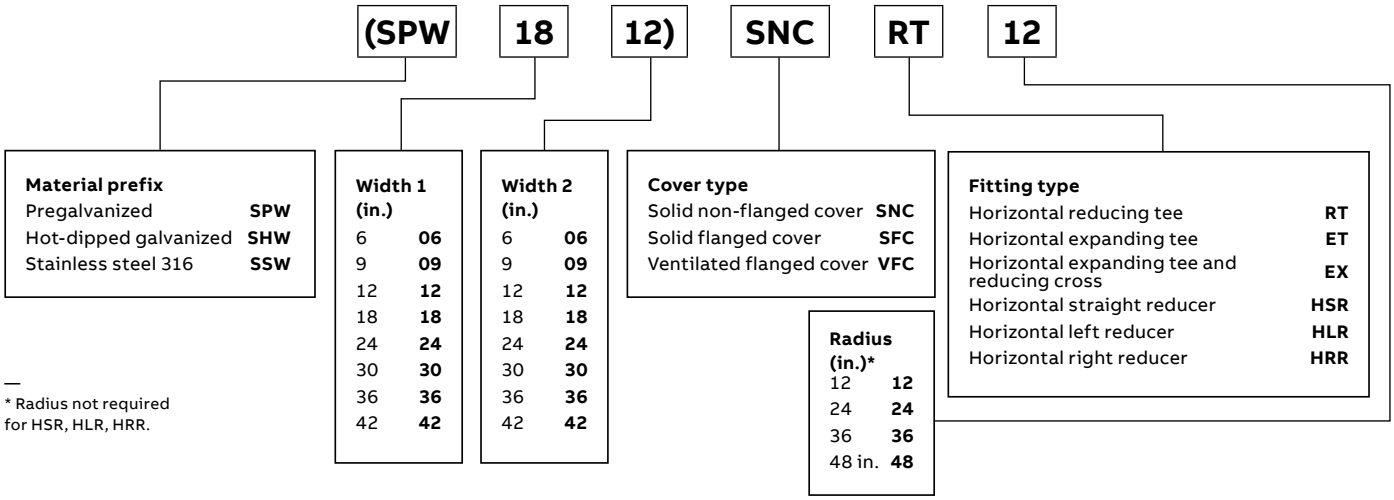
Steel

Fitting covers

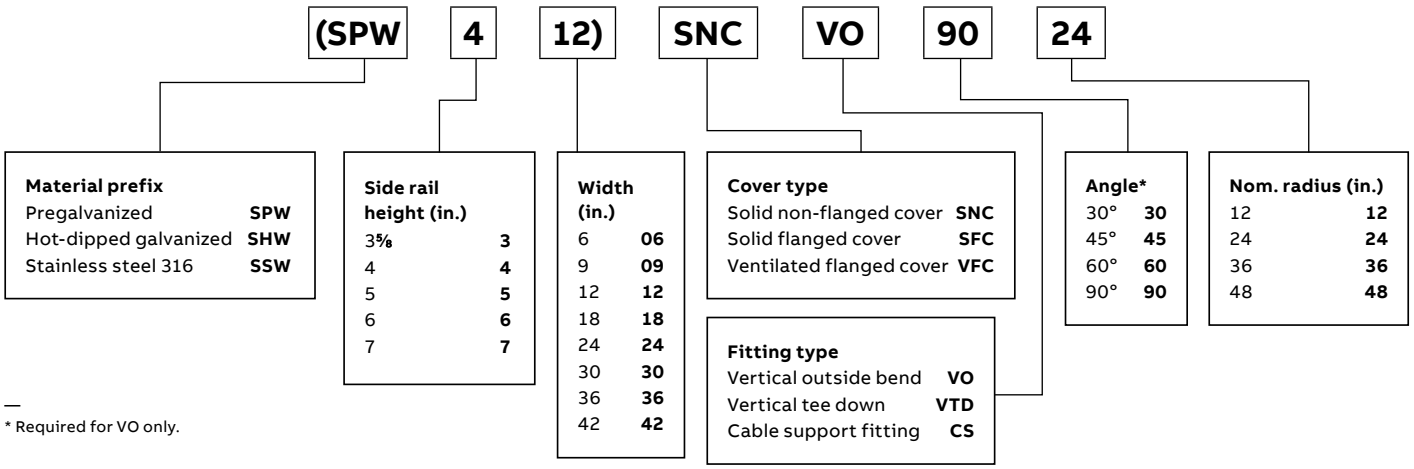
Fitting cover number selection



—
* Required for HB and VI only.



—
* Radius not required for HSR, HLR, HRR.

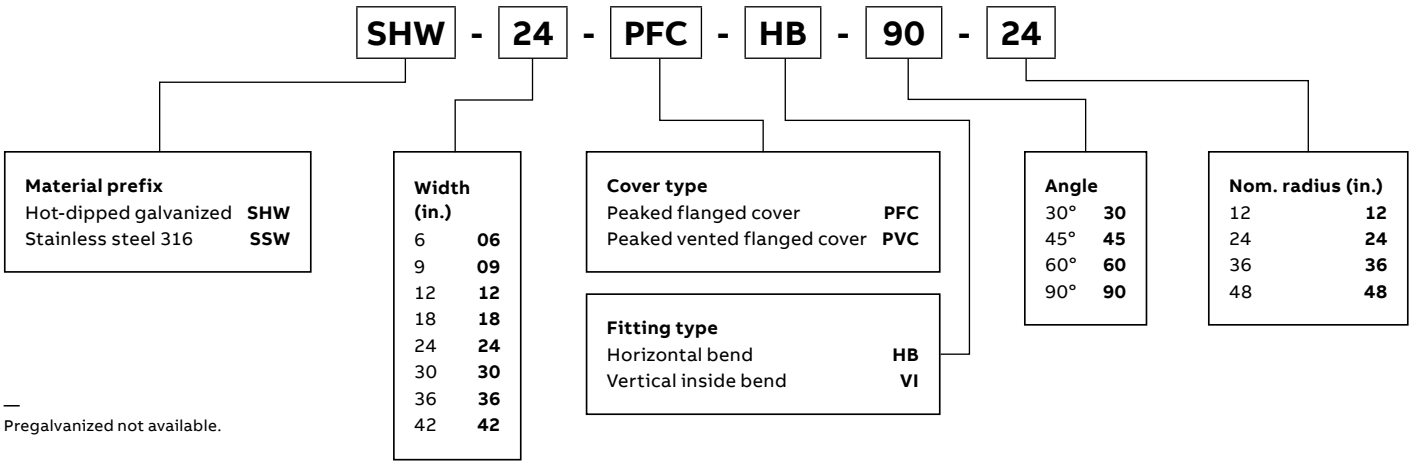


—
* Required for VO only.

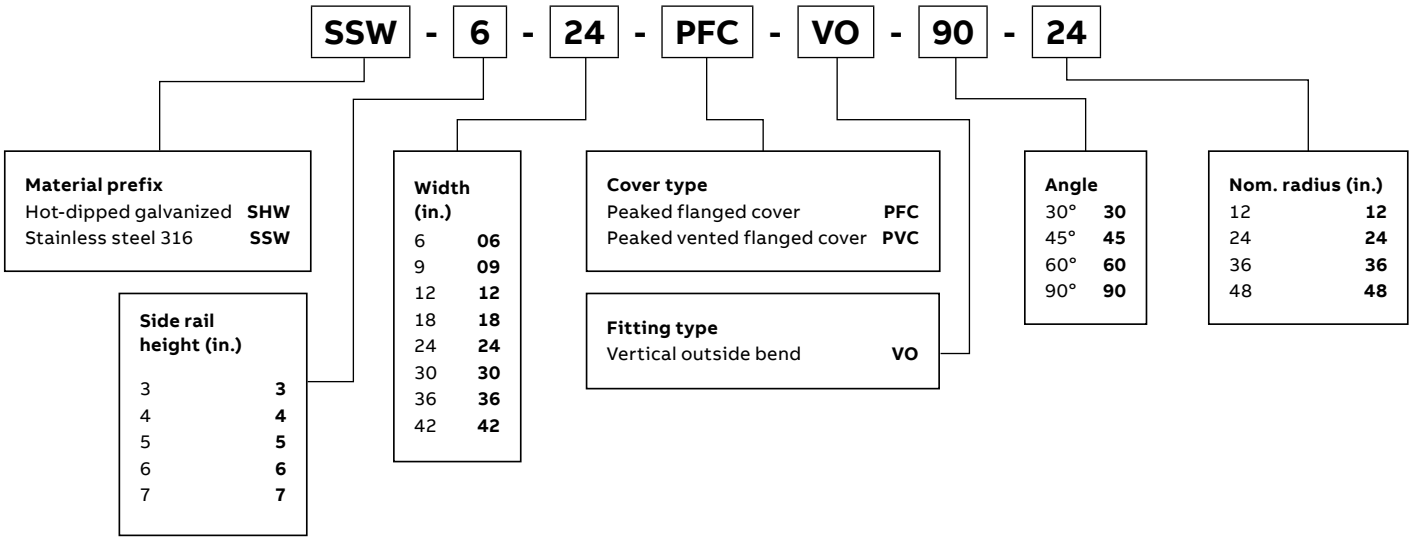
Steel

Peaked covers

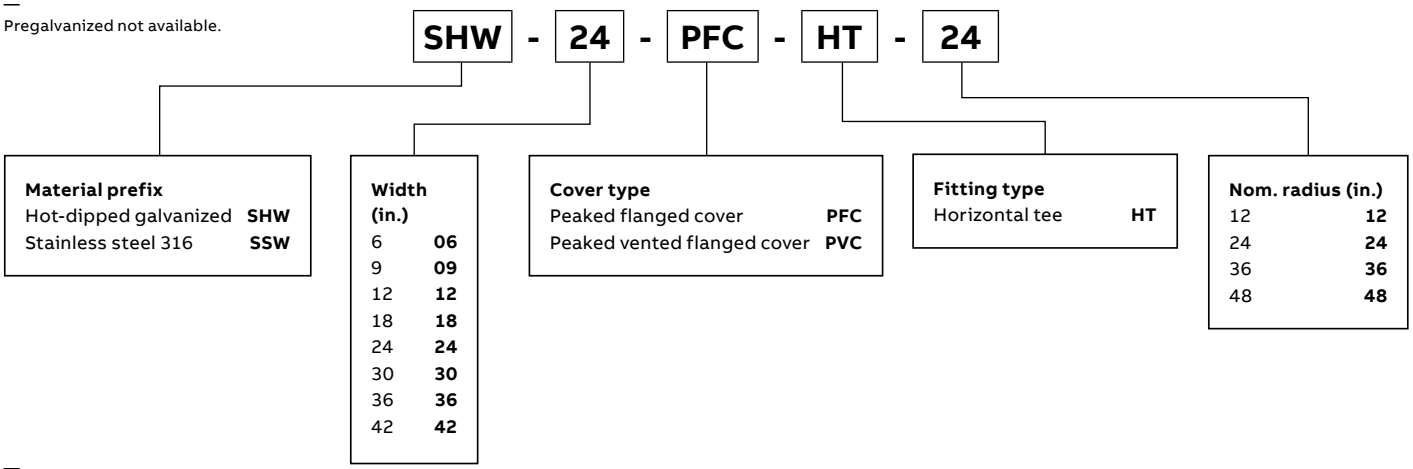
Peaked covers number selection



—
Pregalvanized not available.



—
Pregalvanized not available.



—
Pregalvanized not available.

Steel

Peaked covers

Horizontal bend/vertical inside bend peaked cover number selection

SHW - 12 - PFC - HB - 90 - 24

Material prefix

Hot-dipped galvanized	**SHW**
Stainless steel 316	**SSW**

Width (in.)

6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

Cover type

PFC peaked flanged cover	**PFC**
PVC peaked ventilated flanged cover	**PVC**

Fitting type

Horizontal bend	**HB**
Vertical inside bend	**VI**

Angle

30°	**30**
45°	**45**
60°	**60**
90°	**90**

Nom. radius (in.)

12	**12**
24	**24**
36	**36**
48	**48**

— Pregalvanized not available.

Vertical outside bend peaked cover number selection

SHW - 4 - 12 - PFC - VO - 90 24

Material prefix

Hot-dipped galvanized	**SHW**
Stainless steel 316	**SSW**

Side rail height (in.)

3	**3**
4	**4**
5	**5**
6	**6**
7	**7**

Width (in.)

6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

Cover type

PFC peaked flanged cover	**PFC**
PVC peaked ventilated flanged cover	**PVC**

Fitting type

Vertical outside bend	**VO**

Angle

30°	**30**
45°	**45**
60°	**60**
90°	**90**

Radius (in.)

12	**12**
24	**24**
36	**36**
48	**48**

— Pregalvanized not available.

Horizontal tee peaked cover number selection

SHW - 12 - PFC - HT - 24

Material prefix

Hot-dipped galvanized	**SHW**
Stainless steel 316	**SSW**

Width (in.)

6 in.	**06**
9 in.	**09**
12 in.	**12**
18 in.	**18**
24 in.	**24**
30 in.	**30**
36 in.	**36**
42 in.	**42**

Cover type

PFC peaked flanged cover	**PFC**
PVC peaked ventilated flanged cover	**PVC**

Fitting type

Horizontal tee	**HT**

Radius (in.)

12	**12**
24	**24**
36	**36**
48	**48**

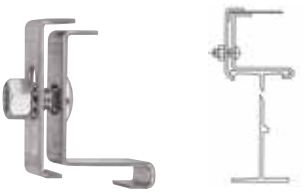
— Pregalvanized not available.

Steel
Accessories

Quantity of standard cover clamps required	
Straight section (6 ft.)	4 pcs.
Straight section (12 ft./ 3 m)	6 pcs.
Horizontal and vertical bends	4 pcs.
Tees	6 pcs.
Crosses	8 pcs.

When using the heavy-duty cover clamp, only half the quantity of pieces are required.

Raised cover clamp



Cat. no.	Material prefix	Cover offset (in.)*
SPW(*)RCC†	SPW, SHW, SSW	1
	SPW, SSW	2

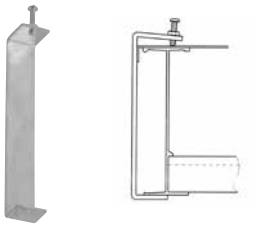
Designed to raise cover above tray for added ventilation.
(*) Insert cover offset.
† For indoor applications only.

Peaked end cap

Cat. no.	Material prefix	Width (in.)
SPW(*)PEC	SPW, SHW, SSW	06
SHW(*)PEC	SPW, SHW, SSW	09
SSW(*)PEC	SPW, SHW, SSW	12
	SPW, SHW, SSW	18
	SPW, SHW, SSW	24
	SPW, SHW, SSW	30
	SPW, SHW, SSW	36
	SPW, SHW, SSW	42

Used for transition between peaked covers to straight covers.
(*) Insert width

Cover clamp



Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-3-SCC	SPW, SHW, SSW	3
(Prefix)-4-SCC	SPW, SHW, SSW	4
(Prefix)-5-SCC	SPW, SHW, SSW	5
(Prefix)-6-SCC	SPW, SHW, SSW	6
(Prefix)-7-SCC	SPW, SHW, SSW	7

Rigid indoor cover clamp for flat and flanged covers.

Heavy-duty cover clamp

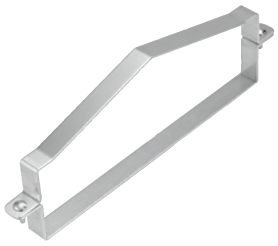
- Side rail heights: 3, 4, 5, 6, 7 in.
- Tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.

	Cat. no.	Material prefix	Side rail height (in.)	Tray width (in.)
	(Prefix)-(*)-(**)-HCC	SPW, SHW, SSW	3 to 7	06 to 42

Wrap-around design offers added protection for rugged applications and outdoor conditions. Hardware included.
(*) Insert side rail height
(**) Insert tray width

Heavy-duty peaked cover clamp

- Side rail heights: 3, 4, 5, 6, 7 in.
- Tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.

	Cat. no.	Material prefix	Side rail height (in.)	Tray width (in.)
	(Prefix)-(*)-(**)-HPC	SPW, SHW, SSW	3 to 7	06 to 42

Wrap-around design formed to fit peaked cover for outdoor applications. Hardware included.
(*) Insert side rail height
(**) Insert tray width

Cover joint strip

	Cat. no.	Material	Tray width (in.)
	ABW-(*)-PCS	Plastic	06
		Plastic	09
		Plastic	12
		Plastic	18
		Plastic	24
		Plastic	30
		Plastic	36
		Plastic	42

Strip used for joining covers end to end.
(*) Insert tray width

Steel splice plates

Splice, expansion and transition plates

- Packaged in pairs with zinc-plated hardware
- Kit contents: 8 bolts, 8 serrated flange nuts ⅜ in. diameter
- Provided as standard with each straight and/or fitting

Splice plate

Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-3-SSP	SPW, SHW, SSW	3
(Prefix)-4-SSP	SPW, SHW, SSW	4
(Prefix)-5-SSP	SPW, SHW, SSW	5
(Prefix)-6-SSP	SPW, SHW, SSW	6
(Prefix)-7-SSP	SPW, SHW, SSW	7

- Allows for a 1 in. expansion or contraction of tray s ystem
- Packaged in pairs with hardware
- Kit contents: 8 bolts, 4 stop nuts, 4 serrated flange nuts ⅜ in. diameter

Expansion splice plate

Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-3-ESP	SPW, SHW, SSW	3
(Prefix)-4-ESP	SPW, SHW, SSW	4
(Prefix)-5-ESP	SPW, SHW, SSW	5
(Prefix)-6-ESP	SPW, SHW, SSW	6
(Prefix)-7-ESP	SPW, SHW, SSW	7

- Designed to make the transition from aluminum to steel cable tray
- Works for all 6 in. side rails

Transition splice plate

Cat. no.	Material	Side rail height (in.)
XNM-XP400-(*)-SS6	Polyester/fiberglass	6

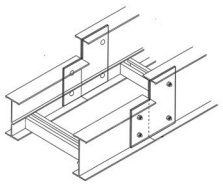
Each pair of plates:
8 x carriage bolt (⅜ x 1 in.) SS316
8 x ⅜ in. serrated flange nut SS316

Steel splice plates

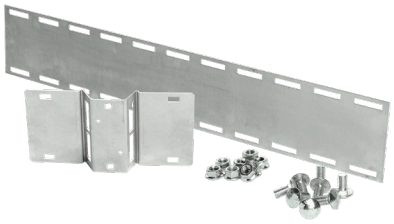
Step-down splice plate and flexible coupler

- Connects side rails of different heights
- Hardware included
- Kit contents: 8 bolts, 8 serrated flange nuts ⅜ in. diameter

Step-down splice plate

	Cat. no.	Material prefix	Side rail height (in.)
	(Prefix)-(*)-(**)-SDS	SPW, SHW, SSW	3 to 7

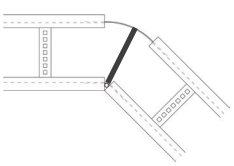
(*) Insert side rail height 1.
(**) Insert side rail height 2.
NOTE: Side rail height 1 is greater than side rail height 2.
Step down slice plate not required to go from side rails 7 inches to 6 inches and from 5 inches to 4 inches.



Flexible coupler

Cat. no.	Material prefix	Side rail height (in.)	Tray width (in.)
(Prefix)-(*)06HBP	SPW, SHW, SSW	3 to 7	06
(Prefix)-(*)09HBP	SPW, SHW, SSW	3 to 7	09
(Prefix)-(*)12HBP	SPW, SHW, SSW	3 to 7	12
(Prefix)-(*)18HBP(**)	SPW, SHW, SSW	3 to 7	18
(Prefix)-(*)24HBP	SPW, SHW, SSW	3 to 7	24
(Prefix)-(*)30HBP	SPW, SHW, SSW	3 to 7	30
(Prefix)-(*)36HBP	SPW, SHW, SSW	3 to 7	36

Furnished in pairs with hardware.
(*) Insert side rail height.
(**) Exception only for SHW finish in 18'' width product is SHW618HBPC, a "C"' must be added at the end of the product code.
Side rail 6 inches only.



Optional rung information (provides additional cable support)

Cat. no.	Material prefix	Tray width (in.)
(Prefix)-R(*)HBP	SPW, SHW, SSW	06
	SPW, SHW, SSW	09
	SPW, SHW, SSW	12
	SPW, SHW, SSW	18
	SPW, SHW, SSW	24
	SPW, SHW, SSW	30
	SPW, SHW, SSW	36

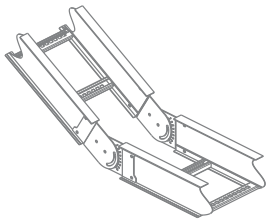
* Insert tray width

Steel splice plates

Vertical adjustable plates, branch pivot connectors and box-to-tray plates

- Hinged vertical plates provide maximum flexibility for changes in elevation
- Packaged in pairs with hardware

Vertical adjustable plate



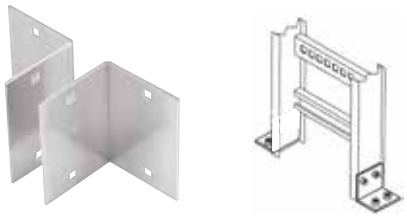
Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-3-VSP	SPW, SHW, SSW	3
(Prefix)-4-VSP	SPW, SHW, SSW	4
(Prefix)-5-VSP	SPW, SHW, SSW	5
(Prefix)-6-VSP	SPW, SHW, SSW	6
(Prefix)-7-VSP	SPW, SHW, SSW	7

Branch pivot connectors

Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-3-BPC	SPW, SHW, SSW	3
(Prefix)-4-BPC	SPW, SHW, SSW	4
(Prefix)-5-BPC	SPW, SHW, SSW	5
(Prefix)-6-BPC	SPW, SHW, SSW	6
(Prefix)-7-BPC	SPW, SHW, SSW	7

Allows cables to run from one tray level to another.

Box-to-tray plates



Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-3-BSP	SPW, SHW, SSW	3
(Prefix)-4-BSP	SPW, SHW, SSW	4
(Prefix)-5-BSP	SPW, SHW, SSW	5
(Prefix)-6-BSP	SPW, SHW, SSW	6
(Prefix)-7-BSP	SPW, SHW, SSW	7

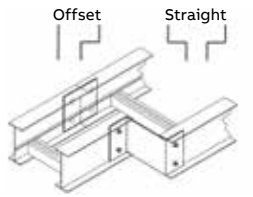
Designed to secure tray to electrical panels or boxes, walls or end supports. Packaged in pairs with hardware.

Steel splice plates

Closure end plate and reducing splice plate

- Used in pairs to provide a straight reduction or used with a standard splice plate for an offset reduction
- One per package with hardware

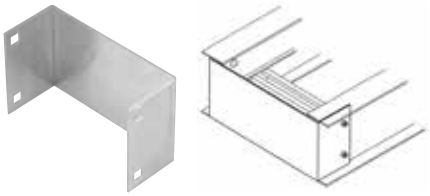
Reducing splice plate

	Cat. no.	Material prefix	Side rail height (in.)
	(Prefix)-3-(*)RSP	SPW, SHW, SSW	3
	(Prefix)-4-(*)RSP	SPW, SHW, SSW	4
	(Prefix)-5-(*)RSP	SPW, SHW, SSW	5
	(Prefix)-6-(*)RSP	SPW, SHW, SSW	6
	(Prefix)-7-(*)RSP	SPW, SHW, SSW	7

* For offset reduction: Insert width to be reduced. For straight reduction: Insert ½ width to be reduced (2 required).
Example: SPW-503-RSP = 3 in. offset reducer

- Side rail heights: 3, 4, 5, 6, 7 in.
- Tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.

Closure end plate

	Cat. no.	Material prefix	Side rail height (in.)	Tray width (in.)
	(Prefix)-(*)-(**)-CEP	SPW, SHW, SSW	3 to 7	06 to 42

Provides closure for any tray end. Hardware included.
(*) Side rail height
(**) Insert tray width

Steel splice plates

Super-Duty Splice Plate

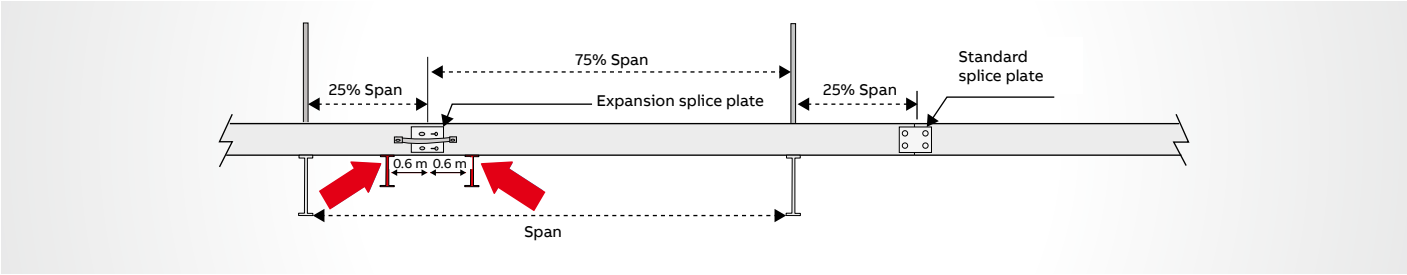
- High-strength design enables reduction of supports recommended for NEMA standard installations at the expansion joint, significantly reducing material and labour costs
- Unique reinforced design eliminates the need to drill and install additional hardware on the flange, saving installation time

Super-Duty Splice Plate

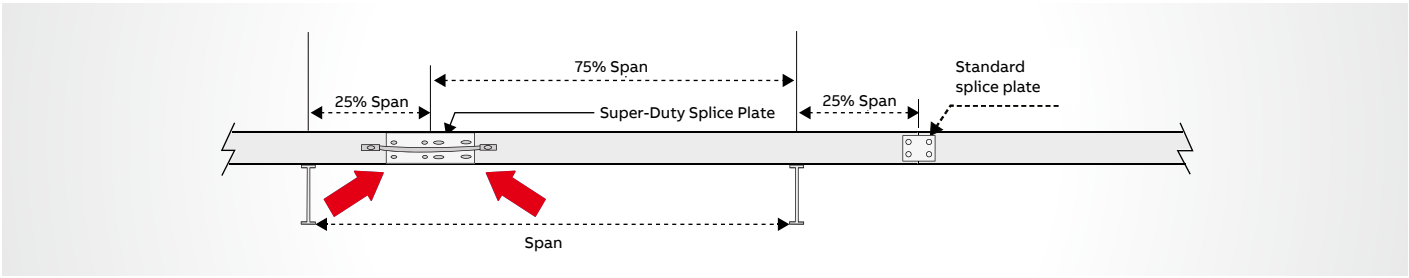
Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-4-SDP	SPW, SHW, SSW	4
(Prefix)-5-SDP	SPW, SHW, SSW	5
(Prefix)-6-SDP	SPW, SHW, SSW	6
(Prefix)-7-SDP	SPW, SHW, SSW	7

Comes complete with 16 bolts, 8 stop nuts, 8 nuts, 8 nylon, washers, ⅜ in. diameter required, for either expansion or mid-span splicing.

01



02



01 Additional supports per NEMA standard installation

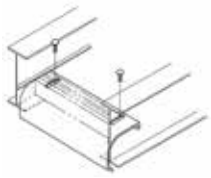
02 No additional supports needed with Super-Duty Splice Plate

Steel cable protection

Drop out and wall penetration sleeve

- Designed to provide a smooth radius surface at any position on the tray or trough bottom
- Drop outs are easily attached using hardware provided
- Standard radius = 4 in.

Drop out

	Cat. no.	Material prefix	Tray width (in.)
	(Prefix)-(*)-DO(S)	SPW, SHW, SSW	06
		SPW, SHW, SSW	09
		SPW, SHW, SSW	12
		SPW, SHW, SSW	18
		SPW, SHW, SSW	24
		SPW, SHW, SSW	30
		SPW, SHW, SSW	36
		SPW, SHW, SSW	42

(*) Insert tray width
(S) Solid tray only

Sold with cover

- Designed to pass through walls and fire walls
- Hardware included
- Note: not fire rated
- Fire stop not included
- Side rail heights: 3, 4, 5, 6, 7 in.
- Tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.

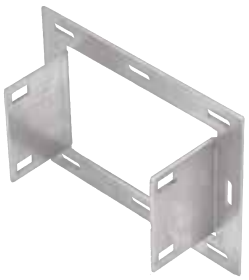
Wall penetration sleeve

Cat. no.	Material prefix	Side rail height (in.)	Tray width (in.)
(Prefix)-(*)-(**)-WPS	SPW, SHW, SSW	3 to 7	06 to 42

(*) Insert side rail height.
(**) Insert tray width

Steel cable protection

Frame-type tray-to-box plate and nylon expansion pad



- Designed to secure tray to electrical enclosures and panels
- Hardware included
- Side rail heights: 3, 4, 5, 6, 7 in.
- Tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.

Frame-type tray-to-box plate

Cat. no.	Material prefix	Side rail height (in.)	Tray width (in.)
(Prefix)-(*)-(**)-FBP	SPW, SHW, SSW	3 to 7	06 to 42

(*) Insert side rail height.
(**) Insert tray width

Nylon expansion pad

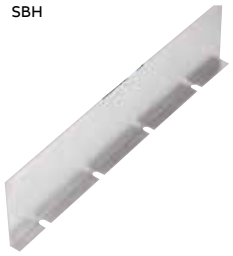
	Cat. no.	Material
	ABW-NSP	Natural nylon

Allows for thermal expansion and contraction of cable trays over supports.

Steel barrier strips

Barrier strips and vertical bend barriers

SBH



SB

- Barrier strips provide a method of separating cables in tray and trough systems
- Easily installed using supplied hardware or barrier strip clamps (sold separately)
- 72 in. barriers are flexible for use with horizontal fittings

Barrier strips

Cat. no.	Material prefix	Designed for side rail height (in.)	Length
(Prefix)-3-SBH-72	SPW, SHW, SSW	3	72 in.
(Prefix)-4-SBH-72	SPW, SHW, SSW	4	72 in.
(Prefix)-5-SBH-72	SPW, SHW, SSW	5	72 in.
(Prefix)-6-SBH-72	SPW, SHW, SSW	6	72 in.
(Prefix)-7-SBH-72	SPW, SHW, SSW	7	72 in.
(Prefix)-3-SB-(*)	SPW, SHW, SSW	3	144 in. 3 m
(Prefix)-4-SB-(*)	SPW, SHW, SSW	4	144 in. 3 m
(Prefix)-5-SB-(*)	SPW, SHW, SSW	5	144 in. 3 m
(Prefix)-6-SB-(*)	SPW, SHW, SSW	6	144 in. 3 m
(Prefix)-7-SB-(*)	SPW, SHW, SSW	7	144 in. 3 m

Barriers provided with self drilling-tapping screw CAT. NO. SPW10SCR 72 in. length: 3 screw 3 m length: 5 screw 144 in. length: 6 screw. SHW barriers are only available in 72 in. or 1,500 mm.
(*) Insert length.

- Preformed to fit all standard steel vertical bends
- Provided with hardware

Inside/outside vertical bend barriers

Inside bend cat. no.	Outside bend cat. no.	Material prefix	Designed for side rail height (in.)
(Prefix)-3-VIB-(*)-(+)	(Prefix)-3-VOB-(*)-(+)	SPW, SHW, SSW	3
(Prefix)-4-VIB-(*)-(+)	(Prefix)-4-VOB-(*)-(+)	SPW, SHW, SSW	4
(Prefix)-5-VIB-(*)-(+)	(Prefix)-5-VOB-(*)-(+)	SPW, SHW, SSW	5
(Prefix)-6-VIB-(*)-(+)	(Prefix)-6-VOB-(*)-(+)	SPW, SHW, SSW	6
(Prefix)-7-VIB-(*)-(+)	(Prefix)-7-VOB-(*)-(+)	SPW, SHW, SSW	7

(*) Insert bend degree
(+) Insert bend radius.

Steel clamps and hardware

Barrier strip clamp and strip splice

- Barrier strip clamps mount barrier strips to ladder rungs and ventilated trough bottoms
- Complete mounting hardware supplied

Barrier strip clamp

	Cat. no.	Material prefix
	(Prefix)-BSC	SPW
		SSW

Barrier strip splice

	Cat. no.
	ABW-BSS

Alignment splice for joining connecting barrier strips.

Steel clamps and hardware

Cable tray combo clamp

Cable tray combo clamp

Cat. no.	Material	Hardware size (in.)
SPWCHGC	Pregalvanized steel	⅜
SHWCHGC	Hot-dip galvanized steel	⅜
SSWCHGC	316 stainless	⅜
SPWCHGC-HDW	Pregalvanized steel	⅜
SHWCHGC-HDW	Hot-dip galvanized steel	⅜
SSWCHGC-HDW	316 stainless	⅜

*Hardware supplied: 1 bolt and 1 springless strut nut ⅜ in. diameter.

Clamp position on cable tray

Guide position on cable tray

Cable tray orientation	Bolt torque	Design load
Vertical/running vertical	17 lb-ft; 23 Nm	300 lbs/pair
Vertical/running horizontal	17 lb-ft; 23 Nm	700 lbs/pair
Reversed	17 lb-ft; 23 Nm	400 lbs/pair

Steel tray hardware

Cat. no.	Material	Description
SPW-1/4-CB	Zinc-plated steel	¼ in. carriage bolt
SPW-3/8-CB	Zinc-plated steel	⅜ in. carriage bolt
SPW-1/4-HN	Zinc-plated steel	¼ in. serrated flange hex nut
SPW-3/8-HN	Zinc-plated steel	⅜ in. hex nut
SPW3/8HWK*	Zinc-plated steel	Hardware kit
SPW-3/8HXHWK**	Zinc-plated steel	Hardware kit ⅜ in. for large radius crosses
SSW-3/8-CB	316 stainless	⅜ in. carriage bolt
SSW-3/8-HN	316 stainless	⅜ in. hex nut
SSW38HWK*	316 stainless	316 stainless steel hardware kit
SSW-3/8HXHWK**	316 stainless	Hardware kit ⅜ in. for large radius crosses

Square shoulder self-positioning carriage bolt.
* Contains 8 nuts and 8 bolts.
**Contains 6 bolts, 6 nuts and 6 washers.

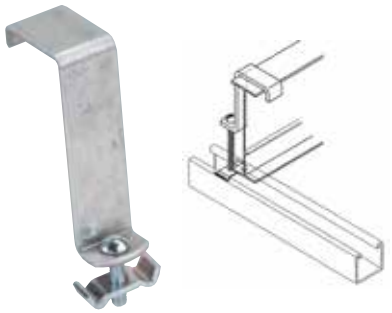
Steel clamps and hardware

Tapping screw, hold-down clamps and conduit clamp

Self-drilling tapping screw

Cat. no.	Material	Description
SPW-10-SCR	Zinc-plated steel	Self-drilling tapping screw
SSW-10-SCR	Stainless steel	Self-drilling tapping screw

Hold-down clamp



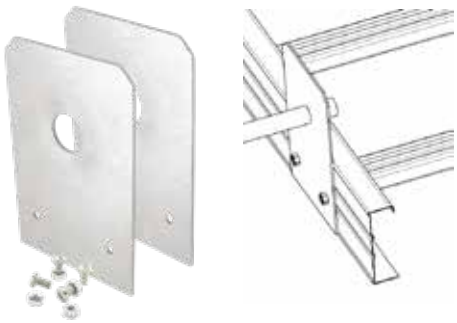
Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-3-HDC	SPW, SHW, SSW	3
(Prefix)-4-HDC	SPW, SHW, SSW	4
(Prefix)-5-HDC	SPW, SHW, SSW	5
(Prefix)-6-HDC	SPW, SHW, SSW	6
(Prefix)-7-HDC	SPW, SHW, SSW	7

Hardware included. Kit contains 1 bolt and 1 channel nut.

Hold-down clamp

Cat. no.	Type	Material	Design load
SPWHDCS	Single	Pregalvanized	800 lb/pair
SHWHDCS	Single	Hot-dipped galvanized	800 lb/pair
SSWHDCS	Single	Stainless steel 316	800 lb/pair
SPWHDCD	Double	Pregalvanized	1,500 lb/pair
SHWHDCD	Double	Hot-dipped galvanized	1,500 lb/pair
SSWHDCD	Double	Stainless steel 316	1,500 lb/pair

Conduit clamp



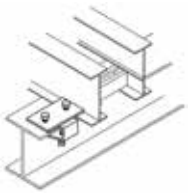
Cat. no.	Size (in.)	Material
PU100CC	1	Pregalvanized
PU125CC	1¼	Pregalvanized
PU150CC	1½	Pregalvanized
PU200CC	2	Pregalvanized
PU250CC	2½	Pregalvanized
PU300CC	3	Pregalvanized
PU400CC	4	Pregalvanized

Steel clamps and hardware

Cable tray guide, clamp and vertical tray hanger

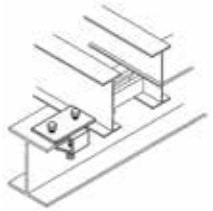
- Expansion guide for single or double runs of cable tray
- No need to field drill channel or I-beam

Cable tray guide



Cat. no.	Material
SPW-CTG	Zinc-plated steel
SHW-CTG	Hot-dipped galvanized steel
SSW-CTG	Stainless steel

Cable tray clamp



Cat. no.	Material
SPW-CTC	Zinc-plated steel
SHW-CTC	Hot-dipped galvanized steel
SSW-CTC	Stainless steel

Vertical tray hanger

Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-(*)-VTH	SPW, SHW, SSW	3
	SPW, SHW, SSW	4
	SPW, SHW, SSW	5
	SPW, SHW, SSW	6
	SPW, SHW	7

(*) Insert side rail height

One-piece tray
Selection guide

Ventilated trough
- Formed from a pre-punched sheet to produce a one-piece ventilated trough
- Available in aluminum, pregalvanized steel, hot-dipped galvanized steel and stainless steel 316
- Fittings are also available to complete this cable tray system

Solid trough
- Fabricated from one sheet to form a continuous one-piece tray design
- Available in aluminum, pregalvanized steel, hot-dipped galvanized steel and stainless steel 316
- Fittings are also available to complete this cable tray system

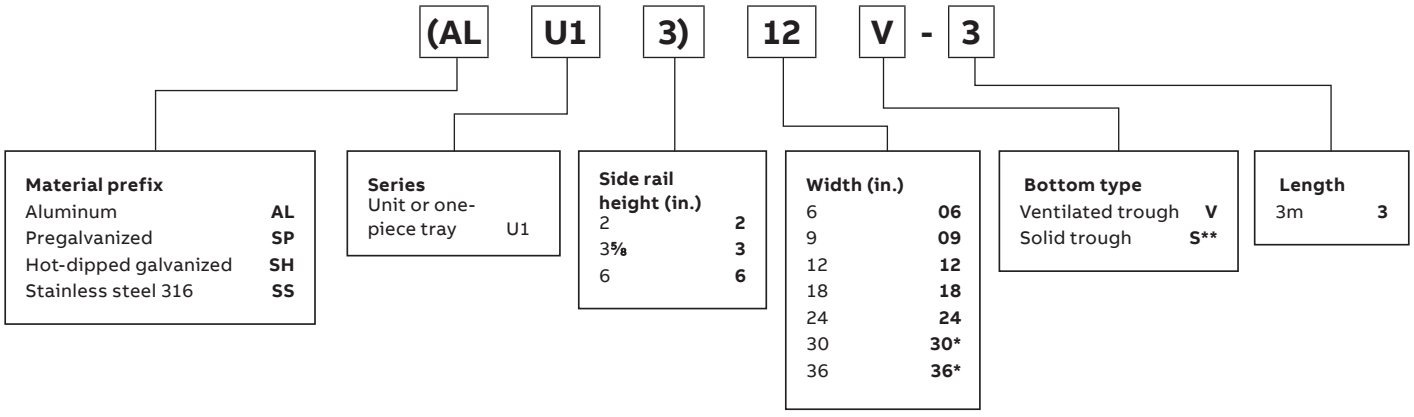
—
1 pair of splice plates complete with hardware supplied with each straight length.

One-piece tray
Selection guide

Straight section number selection

How to create part numbers
ABB has created a numbering system based on the order of selection criteria. For example, the first selection issue is the environment to which the cable tray will be subjected. This selection will lead to the best material for your application. For complete details on the cable tray selection process, see page A8.

Methods
1. Select the material best suited to your environment. Refer to technical section page A8.
2. Determine the tray series using the NEMA load/span designations page A14, and sizing cable tray page A21.
3. Select nominal depth and width of tray based on cable loading. See sizing cable tray page A21.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray.



*For width 30" and 36" ONLY available in ventilated trough bottom with welded flat rung

**Solid trough bottom only available up to 24" width

Standard straight length is 10 feet nominal
3m = 9.842 ft.

One-piece tray straight lengths

2 in. straight sections/AL, SP, SH, SS – Solid and vented

Technical specifications
All calculations and data are based on 36 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

2 in. straight sections/AL, SP, SH, SS – Solid and vented

		Support span (feet)		
Series		**6**	**8**	**10**
ALU12	Load (lb/ft.)	69	39	25
	Deflection (in.)	0.382	0.730	1.000
	Deflection factor	0.006	0.019	0.040
SPU12 SHU12	Load (lb/ft.)	69	39	25
	Deflection (in.)	0.382	0.730	1.000
	Deflection factor	0.006	0.019	0.040
SSU12	Load (lb/ft.)	69	39	25
	Deflection (in.)	0.382	0.730	1.000
	Deflection factor	0.006	0.019	0.040

Straight section number selection

(AL | **U1** | **2)** | **12** | **V** - **3**

Material prefix
- Aluminum **AL**
- Pregalvanized **SP**
- Hot-dipped galvanized **SH**
- Stainless steel 316 **SS**

Series
- Unit or one-piece tray **U1**

Side rail height (in.)
- 2 **2**

Width (in.)
- 6 **06**
- 9 **09**
- 12 **12**
- 18 **18**
- 24 **24**
- 30 **30***
- 36 **36***

Bottom type
- Ventilated trough **V**
- Solid trough **S****

Length
- 3m **3**

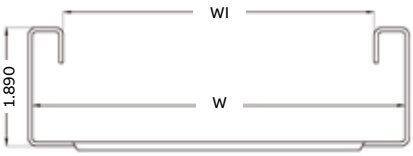
*For width 30" and 36" ONLY available in ventilated trough bottom with welded flat rung

**Solid trough bottom only available up to 24" width

Standard straight length is 10 feet nominal.
3 m = 9.842 ft.

For fittings, consult pages A182 to A200.

Dimensions

	All U12 series (dimensions)	
	W (in.)	Wi (in.)
	6	5.0
	9	8.0
	12	11.0
	18	17.0
	24	23.0
	30	29.0
	36	35.0

Technical specifications

Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray above and beyond published load class.

Load ratings: 1.5 safety factor

			Classifications	
	Series	Dimensions	NEMA	CSA
	ALU12	See above	–	A
	SPU12	See above	–	A
	SHU12	See above	–	A
	SSU12	See above	–	A

One-piece tray straight lengths

3⅝ in. straight sections/AL, SP, SH, SS – Solid and vented

Technical specifications
All calculations and data are based on 36 in. wide cable trays with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

3⅝ straight sections/AL, SP, SH, SS – Solid and vented

		Support span (feet)		
Series		**6**	**8**	**10**
ALU13	Load (lb/ft.)	180	101	65
	Deflection (in.)	0.382	0.430	0.540
	Deflection factor	0.002	0.004	0.008
SPU13 SHU13	Load (lb/ft.)	180	101	65
	Deflection (in.)	0.125	0.250	0.320
	Deflection factor	0.001	0.002	0.005
SSU13	Load (lb/ft.)	180	101	65
	Deflection (in.)	0.125	0.250	0.320
	Deflection factor	0.001	0.002	0.005

Straight section number selection

(AL U1 3) 12 V - 3

Material prefix

Aluminum	**AL**
Pregalvanized	**SP**
Hot-dipped galvanized	**SH**
Stainless steel 316	**SS**

Series

Unit or one-piece tray	**U1**

Side rail height (in.)

3⅝	**3**

Width (in.)

6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30***
36	**36***

Bottom type

Ventilated trough	**V**
Solid trough	**S****

Length

3m	**3**

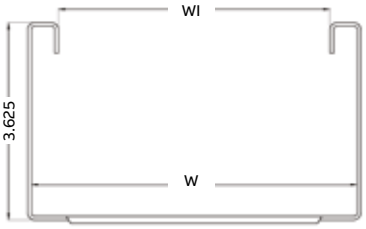
*For width 30" and 36" ONLY available in ventilated trough bottom with welded flat rung

**Solid trough bottom only available up to 24" width

Standard straight length is 10 feet nominal.
3 m = 9.842 ft.

For fittings, consult pages A182 to A200.

Dimensions



	All U13 series (dimensions)	
	W (in.)	Wi (in.)
	6	5.0
	9	8.0
	12	11.0
	18	17.0
	24	23.0
	30	29.0
	36	35.0

Technical specifications

Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray above and beyond published load class.

Load ratings: 1.5 safety factor

			Classifications	
	Series	Dimensions	NEMA	CSA
	ALU13	See above	8C	C
	SPU13	See above	8C	C
	SHU13	See above	8C	C
	SSU13	See above	8C	C

One-piece tray straight lengths

6 in. straight sections/AL, SP, SH, SS – Solid and vented

Technical specifications
All calculations and data are based on 36 in. wide cable trays with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

6 in. straight sections/AL, SP, SH, SS – Solid and vented

		Support span (feet)		
Series		**6**	**8**	**10**
ALU16	Load (lb/ft.)	180	101	65
	Deflection (in.)	0.082	0.128	0.160
	Deflection Factor	0.000	0.001	0.008
SPU16 SHU16	Load (lb/ft.)	180	101	65
	Deflection (in.)	0.125	0.250	0.320
	Deflection Factor	0.001	0.002	0.005
SSU16	Load (lb/ft.)	180	101	65
	Deflection (in.)	0.125	0.250	0.320
	Deflection Factor	0.001	0.002	0.005

Straight section number selection

(AL U1 6) 12 V - 3

Material prefix
- Aluminum **AL**
- Pregalvanized **SP**
- Hot-dipped galvanized **SH**
- Stainless steel 316 **SS**

Series
- Unit or one-piece tray **U1**

Side rail height (in.)
- 6 in. **6**

Width (in.)
- 6 **06**
- 9 **09**
- 12 **12**
- 18 **18**
- 24 **24**
- 30 **30***
- 36 **36***

Bottom type
- Ventilated trough **V**
- Solid trough **S****

Length
- 3m **3**

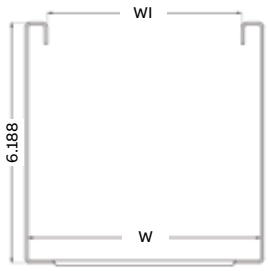
*For width 30" and 36" ONLY available in ventilated trough bottom with welded flat rung

**Solid trough bottom only available up to 24" width

Standard straight length is 10 feet nominal.
3 m = 9.842 ft.

For fittings, consult pages A182 to A200.

Dimensions

	All U16 series (dimensions)	
	W (in.)	Wi (in.)
	6	5.0
	9	8.0
	12	11.0
	18	17.0
	24	23.0
	30	29.0
	36	35.0

Technical specifications

Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray above and beyond published load class.

Load ratings: 1.5 safety factor

			Classifications	
	Series	Dimensions	NEMA	CSA
	ALU16	See above	8C	C
	SPU16	See above	8C	C
	SHU16	See above	8C	C
	SSU16	See above	8C	C

One-piece tray
Fittings

Fittings number selection

SHUF	3	06	V	HB	90	12

Fitting material prefix

Aluminum	**ALUF**
Pregalvanized	**SPUF**
Hot-dipped galvanized	**SHUF**
Stainless steel 316	**SSUF**

Side rail height (in.)

2	**2**
3⅝	**3**
6	**6**

Width (in.)

6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**

Bottom type

Ventilated	**V**
Solid trough	**S**

Fitting type

Horizontal bend	**HB**
Horizontal tee	**HT**
Horizontal cross	**HX**
Vertical inside bend	**VI**
Vertical outside bend	**VO**
Horizontal wye right	**HYR**
Horizontal wye left	**HYL**
Horizontal reducing tee	**RT**
Horizontal expanding tee	**ET**
Horizontal expanding cross	**EX**
Horizontal left reducer	**HLR**
Horizontal straight reducer	**HSR**
Horizontal right reducer	**HRR**
Vertical tee up	**VTU**
Vertical tee down	**VTD**
Cable support	**CS**

Angle**

30°	**30**
45°	**45**
60°	**60**
90°	**90**

Nominal radius (in.) †

12	**12**
24	**24**
36	**36**

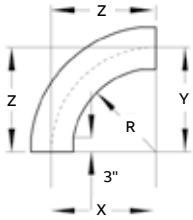
* Angle is required for HB, VI, VO only.

† Radius is not required for the following fitting types: HYR, HYL, HLR, HRR, HSR

One-piece tray

90° Horizontal bend fittings

90° Horizontal bend



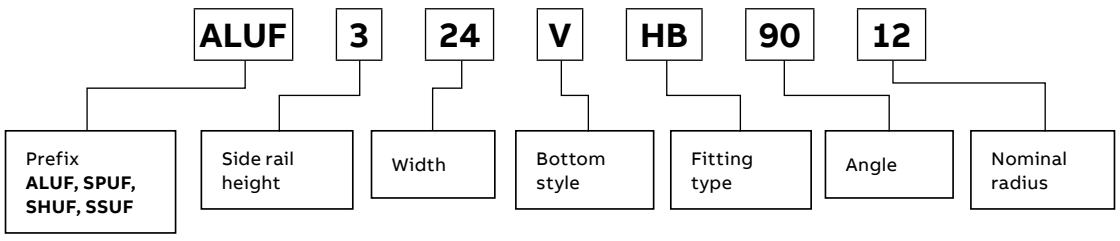
Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) X	Y	Z
12	06	Prefix(†)-06-(*)-HB90-12	15	15	15
12	09	Prefix(†)-09-(*)-HB90-12	16½	16½	16½
12	12	Prefix(†)-12-(*)-HB90-12	18	18	18
12	18	Prefix(†)-18-(*)-HB90-12	21	21	21
12	24	Prefix(†)-24-(*)-HB90-12	24	24	24
12	30	Prefix(†)-30-(*)-HB90-12	27	27	27
12	36	Prefix(†)-36-(*)-HB90-12	30	30	30
24	06	Prefix(†)-06-(*)-HB90-24	27	27	17
24	09	Prefix(†)-09-(*)-HB90-24	28½	28½	28 ½
24	12	Prefix(†)-12-(*)-HB90-24	30	30	30
24	18	Prefix(†)-18-(*)-HB90-24	33	33	33
24	24	Prefix(†)-24-(*)-HB90-24	36	36	36
24	30	Prefix(†)-30-(*)-HB90-24	39	39	39
24	36	Prefix(†)-36-(*)-HB90-24	42	42	42
36	06	Prefix(†)-06-(*)-HB90-36	39	39	39
36	09	Prefix(†)-09-(*)-HB90-36	40½	40½	40½
36	12	Prefix(†)-12-(*)-HB90-36	42	42	42
36	18	Prefix(†)-18-(*)-HB90-36	45	45	45
36	24	Prefix(†)-24-(*)-HB90-36	48	48	48
36	30	Prefix(†)-30-(*)-HB90-36	51	51	51
36	36	Prefix(†)-36-(*)-HB90-36	54	54	54

(†) Insert side rail height. (*) Insert bottom style to complete cat. no.
Includes 1 pair of splice plates with hardware.

Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 06, 09, 12, 18, 24, 30, 36 in.
- Angle: 90°
- Nominal radius: 12, 24, 36 in.
- Bottom styles: V– ventilated, S– solid
- Side rail height: 2, 3, 6 in.

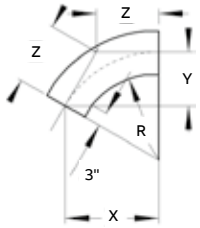
Part numbering system



One-piece tray

60° Horizontal bend fittings

60° Horizontal bend



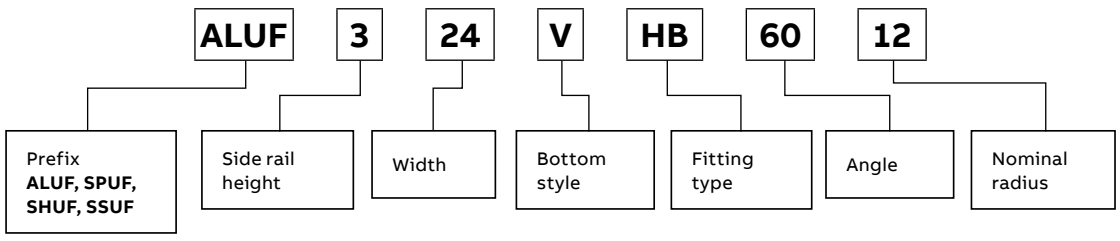
Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) X	Y	Z
12	06	Prefix(†)-06-(*)-HB60-12	14 7/8	8 5/8	9 15/16
12	09	Prefix(†)-09-(*)-HB60-12	16 3/16	9 3/8	10 13/16
12	12	Prefix(†)-12-(*)-HB60-12	17 1/2	10 1/8	11 11/16
12	18	Prefix(†)-18-(*)-HB60-12	20 1/16	11 5/8	13 3/8
12	24	Prefix(†)-24-(*)-HB60-12	22 11/16	13 1/8	15 1/8
12	30	Prefix(†)-30-(*)-HB60-12	25 5/16	14 5/8	16 7/8
12	36	Prefix(†)-36-(*)-HB60-12	27 7/8	16 1/8	18 9/16
24	06	Prefix(†)-06-(*)-HB60-24	25 5/16	14 5/8	16 7/8
24	09	Prefix(†)-09-(*)-HB60-24	26 19/32	15 3/8	17 23/32
24	12	Prefix(†)-12-(*)-HB60-24	27 7/8	16 1/8	18 9/16
24	18	Prefix(†)-18-(*)-HB60-24	30 1/2	17 5/8	20 5/16
24	24	Prefix(†)-24-(*)-HB60-24	33 1/16	19 1/8	22 1/16
24	30	Prefix(†)-30-(*)-HB60-24	35 11/16	20 5/8	23 13/16
24	36	Prefix(†)-36-(*)-HB60-24	38 1/4	22 1/8	25 1/2
36	06	Prefix(†)-06-(*)-HB60-36	35 11/16	20 5/8	23 13/16
36	09	Prefix(†)-09-(*)-HB60-36	36 31/32	21 3/8	24 21/32
36	12	Prefix(†)-12-(*)-HB60-36	38 1/4	22 1/8	25 1/2
36	18	Prefix(†)-18-(*)-HB60-36	40 7/8	23 5/8	27 1/4
36	24	Prefix(†)-24-(*)-HB60-36	43 1/2	25 1/8	29
36	30	Prefix(†)-30-(*)-HB60-36	46 1/16	26 5/8	30 11/16
36	36	Prefix(†)-36-(*)-HB60-36	48 11/16	28 1/8	32 7/16

(†) Insert side rail height. (*) Insert bottom style to complete cat. no.
Includes 1 pair of splice plates with hardware.

Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 06, 09, 12, 18, 24, 30, 36 in.
- Angle: 60°
- Nominal radius: 12, 24, 36 in.
- Bottom styles: V– ventilated, S– solid
- Side rail height: 2, 3, 6 in.

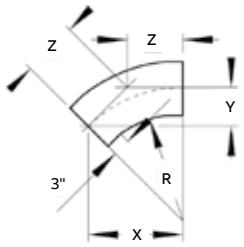
Part numbering system



One-piece tray

45° Horizontal bend fittings

45° Horizontal bend



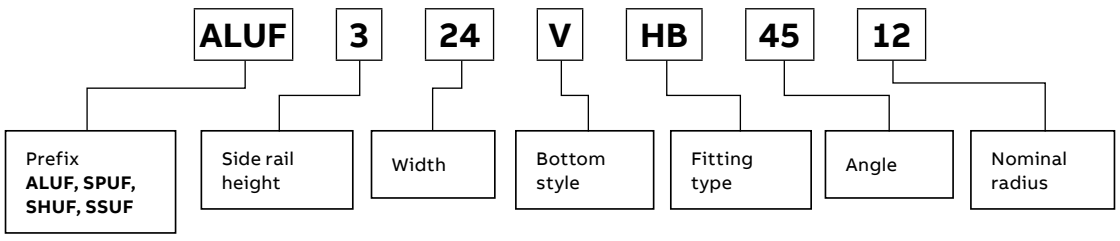
Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) X	Y	Z
12	06	Prefix(†)-06-(*)-HB45-12	13 5/8	5 5/8	8
12	09	Prefix(†)-09-(*)-HB45-12	14 11/16	6 1/16	8 19/32
12	12	Prefix(†)-12-(*)-HB45-12	15 3/4	6 1/2	9 3/16
12	18	Prefix(†)-18-(*)-HB45-12	17 7/8	7 3/8	10 7/16
12	24	Prefix(†)-24-(*)-HB45-12	20	8 1/4	11 11/16
12	30	Prefix(†)-30-(*)-HB45-12	22 1/16	9 1/8	12 15/16
12	36	Prefix(†)-36-(*)-HB45-12	24 3/16	10	14 3/16
24	06	Prefix(†)-06-(*)-HB45-24	22 1/16	9 1/8	12 15/16
24	09	Prefix(†)-09-(*)-HB45-24	23 1/8	9 9/16	13 9/16
24	12	Prefix(†)-12-(*)-HB45-24	24 3/16	10	14 3/16
24	18	Prefix(†)-18-(*)-HB45-24	26 5/16	10 15/16	15 7/16
24	24	Prefix(†)-24-(*)-HB45-24	28 7/16	11 13/16	16 11/16
24	30	Prefix(†)-30-(*)-HB45-24	30 9/16	12 11/16	17 15/16
24	36	Prefix(†)-36-(*)-HB45-24	32 11/16	13 9/16	19 1/8
36	06	Prefix(†)-06-(*)-HB45-36	30 9/16	12 11/16	17 15/16
36	09	Prefix(†)-09-(*)-HB45-36	31 5/8	13 1/8	18 17/32
36	12	Prefix(†)-12-(*)-HB45-36	32 11/16	13 9/16	19 1/8
36	18	Prefix(†)-18-(*)-HB45-36	34 13/16	14 7/16	20 3/8
36	24	Prefix(†)-24-(*)-HB45-36	36 15/16	15 5/16	21 5/8
36	30	Prefix(†)-30-(*)-HB45-36	39 1/16	16 3/16	22 7/8
36	36	Prefix(†)-36-(*)-HB45-36	41 3/16	17 1/16	24 1/8

(†) Insert side rail height. (*) Insert bottom style to complete cat. no.
Includes 1 pair of splice plates with hardware.

Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 06, 09, 12, 18, 24, 30, 36 in.
- Angle: 45°
- Nominal radius: 12, 24, 36 in.
- Bottom styles: V– ventilated, S– solid
- Side rail height: 2, 3, 6 in.

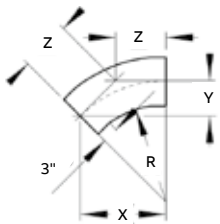
Part numbering system



One-piece tray

30° Horizontal bend fittings

30° Horizontal bend



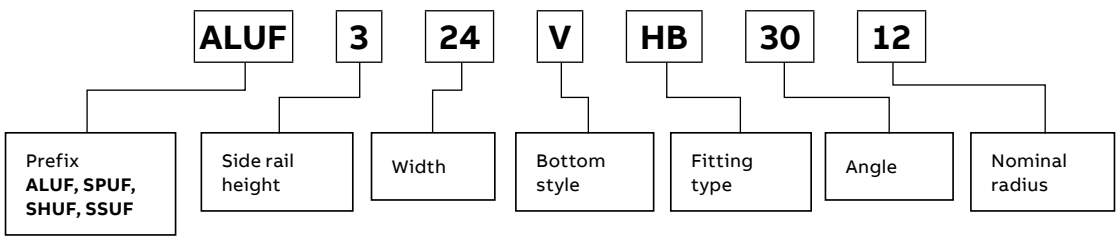
Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) X	Y	Z
12	06	Prefix(†)-06-(*)-HB30-12	11 5/8	3 1/8	6 3/16
12	09	Prefix(†)-09-(*)-HB30-12	12 9/16	3 5/16	6 19/32
12	12	Prefix(†)-12-(*)-HB30-12	13 1/2	3 1/2	7
12	18	Prefix(†)-18-(*)-HB30-12	14 5/8	3 15/16	7 13/16
12	24	Prefix(†)-24-(*)-HB30-12	16 1/8	4 5/16	8 5/8
12	30	Prefix(†)-30-(*)-HB30-12	17 5/8	4 11/16	9 7/16
12	36	Prefix(†)-36-(*)-HB30-12	19 1/8	5 1/8	10 1/4
24	06	Prefix(†)-06-(*)-HB30-24	17 5/8	4 11/16	9 7/16
24	09	Prefix(†)-09-(*)-HB30-24	18 3/8	4 29/32	9 27/32
24	12	Prefix(†)-12-(*)-HB30-24	19 1/8	5 1/8	10 1/4
24	18	Prefix(†)-18-(*)-HB30-24	20 5/8	5 1/2	11 1/16
24	24	Prefix(†)-24-(*)-HB30-24	22 1/8	5 15/16	11 13/16
24	30	Prefix(†)-30-(*)-HB30-24	23 5/8	6 5/16	12 5/8
24	36	Prefix(†)-36-(*)-HB30-24	25 1/8	6 3/4	13 7/16
36	06	Prefix(†)-06-(*)-HB30-36	23 5/8	6 5/16	12 5/8
36	09	Prefix(†)-09-(*)-HB30-36	24 3/8	6 17/32	13 1/32
36	12	Prefix(†)-12-(*)-HB30-36	25 1/8	6 3/4	13 7/16
36	18	Prefix(†)-18-(*)-HB30-36	26 5/8	7 1/4	14 1/4
36	24	Prefix(†)-24-(*)-HB30-36	28 1/8	7 1/2	15 1/16
36	30	Prefix(†)-30-(*)-HB30-36	29 5/8	7 15/16	15 7/8
36	36	Prefix(†)-36-(*)-HB30-36	31 1/8	8 5/16	16 11/16

(†) Insert side rail height. (*) Insert bottom style to complete cat. no.
Includes 1 pair of splice plates with hardware.

Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 06, 09, 12, 18, 24, 30, 36 in.
- Angle: 30°
- Nominal radius: 12, 24, 36 in.
- Bottom styles: V– ventilated, S– solid
- Side rail height: 2, 3, 6 in.

Part numbering system



One-piece tray

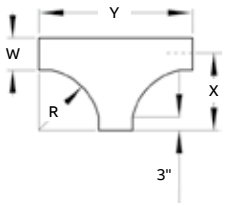
Horizontal tee fittings

Horizontal tee

	Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) X	Y
Solid	12	06	Prefix(†)-06-(*)-HT12	15	30
	12	09	Prefix(†)-09-(*)-HT12	16½	33
	12	12	Prefix(†)-12-(*)-HT12	18	36
	12	18	Prefix(†)-18-(*)-HT12	21	42
	12	24	Prefix(†)-24-(*)-HT12	24	48
	12	30	Prefix(†)-30-(*)-HT12	27	54
	12	36	Prefix(†)-36-(*)-HT12	30	60
	24	06	Prefix(†)-06-(*)-HT24	27	54
	24	09	Prefix(†)-09-(*)-HT24	28½	57
Ventilated	24	12	Prefix(†)-12-(*)-HT24	30	60
	24	18	Prefix(†)-18-(*)-HT24	33	66
	24	24	Prefix(†)-24-(*)-HT24	36	72
	24	30	Prefix(†)-30-(*)-HT24	39	78
	24	36	Prefix(†)-36-(*)-HT24	42	84
	36	06	Prefix(†)-06-(*)-HT36	39	78
	36	09	Prefix(†)-09-(*)-HT36	40½	81
	36	12	Prefix(†)-12-(*)-HT36	42	84
	36	18	Prefix(†)-18-(*)-HT36	45	90
	36	24	Prefix(†)-24-(*)-HT36	48	96
	36	30	Prefix(†)-30-(*)-HT36	51	102
	36	36	Prefix(†)-36-(*)-HT36	54	108

(†) Insert side rail height. (*) Insert bottom style to complete cat. no.
Tees include 2 pairs/crosses include 3 pairs of splice plates with hardware.

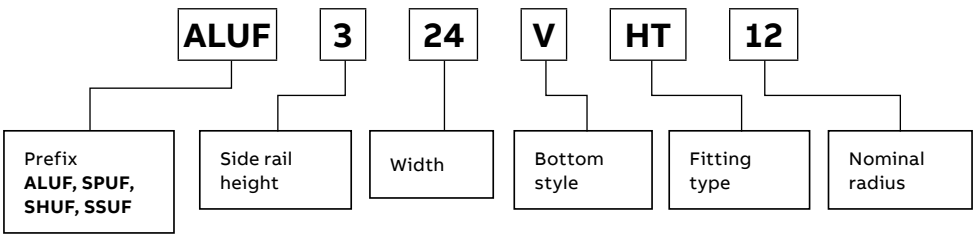
Dimensions



Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 06, 09, 12, 18, 24, 30, 36 in.
- Nominal radius: 12, 24, 36 in.
- Bottom styles: V– ventilated, S– solid
- Side rail height: 2, 3, 6 in.

Part numbering system



One-piece tray

Horizontal cross fittings

Horizontal cross

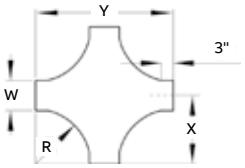
Solid

Ventilated

	Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) X	Y
	12	06	Prefix(†)-06-(*)-HX12	15	30
	12	09	Prefix(†)-09-(*)-HX12	16½	33
	12	12	Prefix(†)-12-(*)-HX12	18	36
	12	18	Prefix(†)-18-(*)-HX12	21	42
	12	24	Prefix(†)-24-(*)-HX12	24	48
	12	30	Prefix(†)-30-(*)-HX12	27	54
	12	36	Prefix(†)-36-(*)-HX12	30	60
	24	06	Prefix(†)-06-(*)-HX24	27	54
	24	09	Prefix(†)-09-(*)-HX24	28½	57
	24	12	Prefix(†)-12-(*)-HX24	30	60
	24	18	Prefix(†)-18-(*)-HX24	33	66
	24	24	Prefix(†)-24-(*)-HX24	36	72
	24	30	Prefix(†)-30-(*)-HX24	39	78
	24	36	Prefix(†)-36-(*)-HX24	42	84
	36	06	Prefix(†)-06-(*)-HX36	39	78
	36	09	Prefix(†)-09-(*)-HX36	40½	81
	36	12	Prefix(†)-12-(*)-HX36	42	84
	36	18	Prefix(†)-18-(*)-HX36	45	90
	36	24	Prefix(†)-24-(*)-HX36	48	96
	36	30	Prefix(†)-30-(*)-HX36	51	102
	36	36	Prefix(†)-36-(*)-HX36	54	108

(†) Insert side rail height. (*) Insert bottom style to complete cat. no.
Tees include 2 pairs / crosses include 3 pairs of splice plates with hardware.

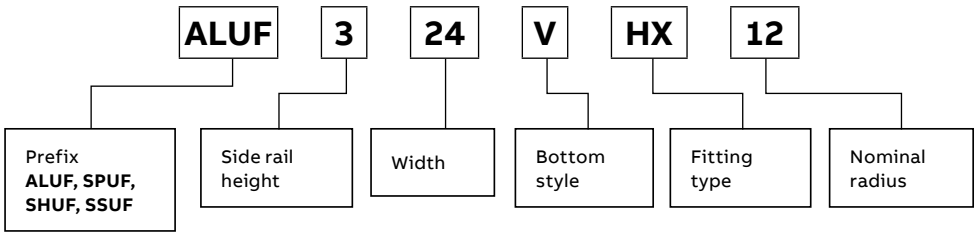
Dimensions



Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 06, 09, 12, 18, 24, 30, 36 in.
- Nominal radius: 12, 24, 36 in.
- Bottom styles: V– ventilated, S– solid
- Side rail height: 2, 3, 6 in.

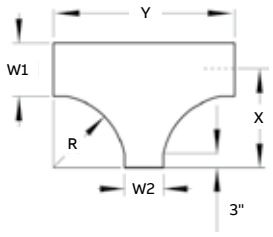
Part numbering system



One-piece tray

Horizontal reducing tee fittings

Horizontal reducing tee



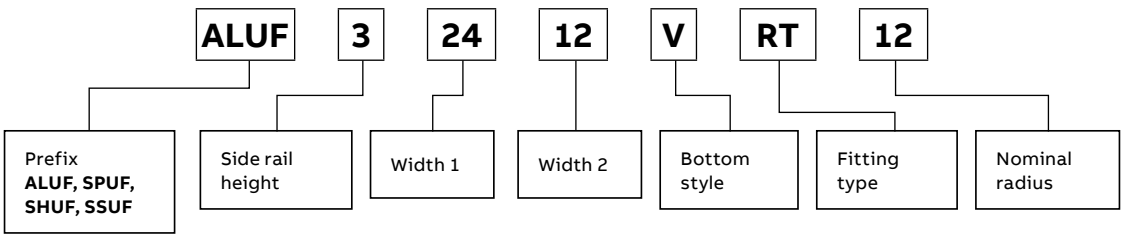
Widths (in.)			Dimensions (in.)					
			(+) 12 in. Nominal radius		(+) 24 in. Nominal radius		(+) 36 in. Nominal radius	
W1	W2	Cat. no.	X	Y	X	Y	X	Y
36	30	Prefix(†)-3630-(*)-RT(+)	30	54	42	78	54	102
36	24	Prefix(†)-3624-(*)-RT(+)	30	48	42	72	54	96
36	18	Prefix(†)-3618-(*)-RT(+)	30	42	42	66	54	90
36	12	Prefix(†)-3612-(*)-RT(+)	30	36	42	60	54	84
36	09	Prefix(†)-3609-(*)-RT(+)	30	33	42	57	54	81
36	06	Prefix(†)-3606-(*)-RT(+)	30	30	42	54	54	78
30	24	Prefix(†)-3024-(*)-RT(+)	27	48	39	72	51	96
30	18	Prefix(†)-3018-(*)-RT(+)	27	42	39	66	51	90
30	12	Prefix(†)-3012-(*)-RT(+)	27	36	39	60	51	84
30	09	Prefix(†)-3009-(*)-RT(+)	27	33	39	57	51	81
30	06	Prefix(†)-3006-(*)-RT(+)	27	30	39	54	51	78
24	18	Prefix(†)-2418-(*)-RT(+)	24	42	36	66	48	90
24	12	Prefix(†)-2412-(*)-RT(+)	24	36	36	60	48	84
24	09	Prefix(†)-2409-(*)-RT(+)	24	33	36	57	48	81
24	06	Prefix(†)-2406-(*)-RT(+)	24	30	36	54	48	78
18	12	Prefix(†)-1812-(*)-RT(+)	21	36	33	60	45	84
18	09	Prefix(†)-1809-(*)-RT(+)	21	33	33	57	45	81
18	06	Prefix(†)-1806-(*)-RT(+)	21	30	33	54	45	78
12	09	Prefix(†)-1209-(*)-RT(+)	18	33	30	57	42	81
12	06	Prefix(†)-1206-(*)-RT(+)	18	30	30	54	42	78
09	06	Prefix(†)-906-(*)-RT(+)	16½	30	28½	54	40½	78

(†) Insert side rail height. (*) Insert bottom style (+) Insert radius (12 in. – 36 in.) to complete cat. no.
Includes 2 pairs of splice plates with hardware.

Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Tray widths W1: 36, 30, 24, 18, 12, 09 in.
- Tray widths W2: 30, 24, 18, 12, 09, 06 in.
- Nominal radius: 12, 24, 36 in.
- Bottom styles: V– ventilated, S– solid
- Side rail height: 2, 3, 6 in.

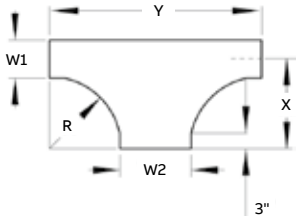
Part numbering system



One-piece tray

Horizontal expanding tee fittings

Horizontal expanding tee



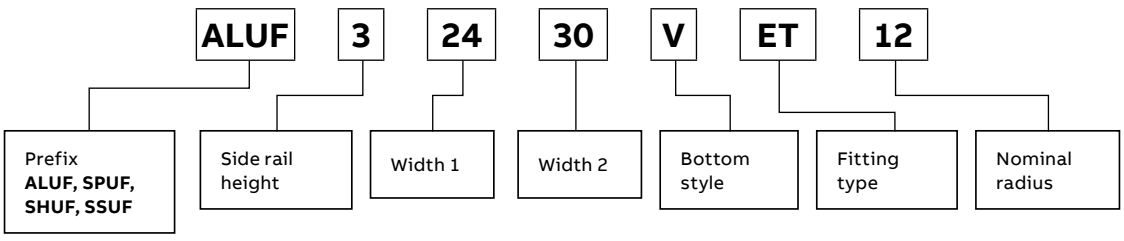
Widths (in.)			Dimensions (in.)					
			(+) 12 in. Nominal radius		(+) 24 in. Nominal radius		(+) 36 in. Nominal radius	
W1	W2	Cat. no.	X	Y	X	Y	X	Y
30	36	Prefix(†)-3036-(*)-ET(+)	27	60	39	84	51	108
24	30	Prefix(†)-2430-(*)-ET(+)	24	54	36	78	48	102
24	36	Prefix(†)-2436-(*)-ET(+)	24	60	36	84	48	108
18	24	Prefix(†)-1824-(*)-ET(+)	21	48	33	72	45	96
18	30	Prefix(†)-1830-(*)-ET(+)	21	54	33	78	45	102
18	36	Prefix(†)-1836-(*)-ET(+)	21	60	33	84	45	108
12	18	Prefix(†)-1218-(*)-ET(+)	18	42	30	66	42	90
12	24	Prefix(†)-1224-(*)-ET(+)	18	48	30	72	42	96
12	30	Prefix(†)-1230-(*)-ET(+)	18	54	30	78	42	102
12	36	Prefix(†)-1236-(*)-ET(+)	18	60	30	84	42	108
09	12	Prefix(†)-0912-(*)-ET(+)	16½	36	28½	60	40½	84
09	18	Prefix(†)-0918-(*)-ET(+)	16½	42	28½	66	40½	90
09	24	Prefix(†)-0942-(*)-ET(+)	16½	48	28½	72	40½	96
09	30	Prefix(†)-0930-(*)-ET(+)	16½	54	28½	78	40½	102
09	36	Prefix(†)-0936-(*)-ET(+)	16½	60	28½	84	40½	108
06	09	Prefix(†)-0609-(*)-ET(+)	15	33	27	57	39	81
06	12	Prefix(†)-0612-(*)-ET(+)	15	36	27	60	39	84
06	18	Prefix(†)-0618-(*)-ET(+)	15	42	27	66	39	90
06	24	Prefix(†)-0624-(*)-ET(+)	15	48	27	72	39	96
06	30	Prefix(†)-0630-(*)-ET(+)	15	54	27	78	39	102
06	36	Prefix(†)-0636-(*)-ET(+)	15	60	27	84	39	108

(†) Insert side rail height. (*) Insert bottom style (+) Insert radius (12 in.–36 in.) to complete cat. no.
Includes 2 pairs of splice plates with hardware.

Selection guide

- Prefix: SALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Tray widths W1: 30, 24, 18, 12, 09, 06 in.
- Tray widths W2: 36, 30, 24, 18, 12, 09 in.
- Nominal radius: 12, 24, 36 in.
- Bottom styles: V– ventilated, S– solid
- Side rail height: 2, 3, 6 in.

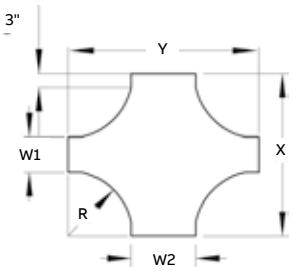
Part numbering system



One-piece tray

Horizontal expanding cross fittings

Horizontal expanding cross



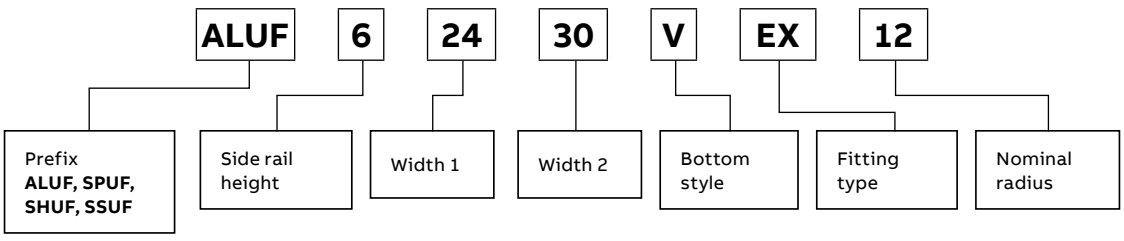
Widths (in.)			Dimensions (in.)					
			(+) 12 in. Nominal radius		(+) 24 in. Nominal radius		(+) 36 in. Nominal radius	
W1	W2	Cat. no.	X	Y	X	Y	X	Y
30	36	Prefix(†)-3036-(*)-EX(+)	54	60	78	84	102	108
24	30	Prefix(†)-2430-(*)-EX(+)	48	54	72	78	96	102
24	36	Prefix(†)-2436-(*)-EX(+)	48	60	72	84	96	108
18	24	Prefix(†)-1824-(*)-EX(+)	42	48	66	72	90	96
18	30	Prefix(†)-1830-(*)-EX(+)	42	54	66	78	90	102
18	36	Prefix(†)-1836-(*)-EX(+)	42	60	66	84	90	108
12	18	Prefix(†)-1218-(*)-EX(+)	36	42	60	66	84	90
12	24	Prefix(†)-1224-(*)-EX(+)	36	48	60	72	84	96
12	30	Prefix(†)-1230-(*)-EX(+)	36	54	60	78	84	102
12	36	Prefix(†)-1236-(*)-EX(+)	36	60	60	84	84	108
09	12	Prefix(†)-0912-(*)-EX(+)	33	36	57	60	81	84
09	18	Prefix(†)-0918-(*)-EX(+)	33	42	57	66	81	90
09	24	Prefix(†)-0924-(*)-EX(+)	33	48	57	72	81	96
09	30	Prefix(†)-0930-(*)-EX(+)	33	54	57	78	81	102
09	36	Prefix(†)-0936-(*)-EX(+)	33	60	57	84	81	108
06	09	Prefix(†)-0609-(*)-EX(+)	30	33	54	57	78	81
06	12	Prefix(†)-0612-(*)-EX(+)	30	36	54	60	78	84
06	18	Prefix(†)-0618-(*)-EX(+)	30	42	54	66	78	90
06	24	Prefix(†)-0624-(*)-EX(+)	30	48	54	72	78	96
06	30	Prefix(†)-0630-(*)-EX(+)	30	54	54	78	78	102
06	36	Prefix(†)-0636-(*)-EX(+)	30	60	54	84	78	108

(†) Insert side rail height. (*) Insert bottom style (+) Insert radius (12 in.–36 in.) to complete cat. no.
Includes 3 pairs of splice plates with hardware.

Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Tray widths W1: 30, 24, 18, 12, 09, 06 in.
- Tray widths W2: 36, 30, 24, 18, 12, 09 in.
- Nominal radius: 12, 24, 36 in.
- Bottom styles: V– ventilated, S– solid
- Side rail height: 2, 3, 6 in.

Part numbering system



One-piece tray

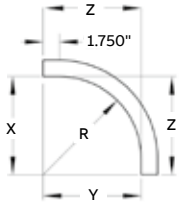
90° Vertical bend fittings

Selection guide

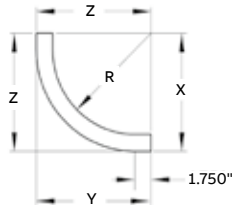
- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 06, 09, 12, 18, 24, 30, 36 in.
- Angle: 90°
- Nominal radius: 12, 24, 36 in.
- Bottom styles: V– ventilated, S– solid
- Side rail height: 2, 3, 6 in.

90° Vertical bend

Outside bend ventilated



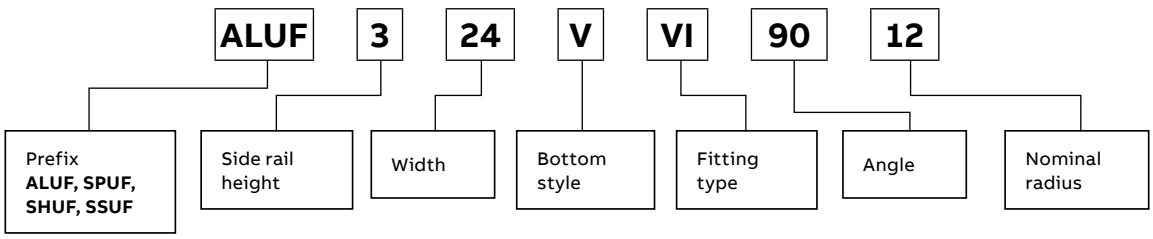
Inside bend ventilated



	Nominal radius (in.)	Nominal width (in.)	Cat. no.	(+) VO side rail height 2 in., 3 in., 6 in. X	Y	Z	Dimensions (in.) 2 in. X	Y	Z	3 in. X	Y	Z	(+) VI side rail depth 6 in. X	Y	Z
	12	06	Prefix(†)-06-(*)-(+)90-12	12	12	12	13⅞	13⅞	13⅞	15⅝	15⅝	15⅝	18³⁄₁₆	18³⁄₁₆	18³⁄₁₆
	12	09	Prefix(†)-09-(*)-(+)90-12	12	12	12	13⅞	13⅞	13⅞	15⅝	15⅝	15⅝	18³⁄₁₆	18³⁄₁₆	18³⁄₁₆
	12	12	Prefix(†)-12-(*)-(+)90-12	12	12	12	13⅞	13⅞	13⅞	15⅝	15⅝	15⅝	18³⁄₁₆	18³⁄₁₆	18³⁄₁₆
	12	18	Prefix(†)-18-(*)-(+)90-12	12	12	12	13⅞	13⅞	13⅞	15⅝	15⅝	15⅝	18³⁄₁₆	18³⁄₁₆	18³⁄₁₆
	12	24	Prefix(†)-24-(*)-(+)90-12	12	12	12	13⅞	13⅞	13⅞	15⅝	15⅝	15⅝	18³⁄₁₆	18³⁄₁₆	18³⁄₁₆
	12	36	Prefix(†)-36-(*)-(+)90-12	12	12	12	13⅞	13⅞	13⅞	15⅝	15⅝	15⅝	18³⁄₁₆	18³⁄₁₆	18³⁄₁₆
	24	06	Prefix(†)-06-(*)-(+)90-24	24	24	24	25⅞	25⅞	25⅞	27⅝	27⅝	27⅝	30³⁄₁₆	30³⁄₁₆	30³⁄₁₆
	24	09	Prefix(†)-09-(*)-(+)90-24	24	24	24	25⅞	25⅞	25⅞	27⅝	27⅝	27⅝	30³⁄₁₆	30³⁄₁₆	30³⁄₁₆
	24	12	Prefix(†)-12-(*)-(+)90-24	24	24	24	25⅞	25⅞	25⅞	27⅝	27⅝	27⅝	30³⁄₁₆	30³⁄₁₆	30³⁄₁₆
	24	18	Prefix(†)-18-(*)-(+)90-24	24	24	24	25⅞	25⅞	25⅞	27⅝	27⅝	27⅝	30³⁄₁₆	30³⁄₁₆	30³⁄₁₆
	24	24	Prefix(†)-24-(*)-(+)90-24	24	24	24	25⅞	25⅞	25⅞	27⅝	27⅝	27⅝	30³⁄₁₆	30³⁄₁₆	30³⁄₁₆
	24	30	Prefix(†)-30-(*)-(+)90-24	24	24	24	25⅞	25⅞	25⅞	27⅝	27⅝	27⅝	30³⁄₁₆	30³⁄₁₆	30³⁄₁₆
	24	36	Prefix(†)-36-(*)-(+)90-24	24	24	24	25⅞	25⅞	25⅞	27⅝	27⅝	27⅝	30³⁄₁₆	30³⁄₁₆	30³⁄₁₆
	36	06	Prefix(†)-06-(*)-(+)90-36	36	36	36	37⅞	37⅞	37⅞	39⅝	39⅝	39⅝	42³⁄₁₆	42³⁄₁₆	42³⁄₁₆
	36	09	Prefix(†)-09-(*)-(+)90-36	36	36	36	37⅞	37⅞	37⅞	39⅝	39⅝	39⅝	42³⁄₁₆	42³⁄₁₆	42³⁄₁₆
	36	12	Prefix(†)-12-(*)-(+)90-36	36	36	36	37⅞	37⅞	37⅞	39⅝	39⅝	39⅝	42³⁄₁₆	42³⁄₁₆	42³⁄₁₆
	36	18	Prefix(†)-18-(*)-(+)90-36	36	36	36	37⅞	37⅞	37⅞	39⅝	39⅝	39⅝	42³⁄₁₆	42³⁄₁₆	42³⁄₁₆
	36	24	Prefix(†)-24-(*)-(+)90-36	36	36	36	37⅞	37⅞	37⅞	39⅝	39⅝	39⅝	42³⁄₁₆	42³⁄₁₆	42³⁄₁₆
	36	30	Prefix(†)-30-(*)-(+)90-36	36	36	36	37⅞	37⅞	37⅞	39⅝	39⅝	39⅝	42³⁄₁₆	42³⁄₁₆	42³⁄₁₆
	36	36	Prefix(†)-36-(*)-(+)90-36	36	36	36	37⅞	37⅞	37⅞	39⅝	39⅝	39⅝	42³⁄₁₆	42³⁄₁₆	42³⁄₁₆

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete cat. no.
Includes 1 pair of splice plates with hardware.

Part numbering system



One-piece tray

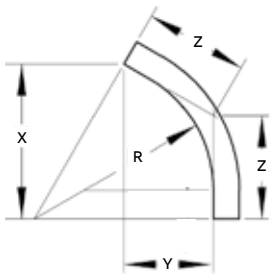
60° Vertical bend fittings

Selection guide

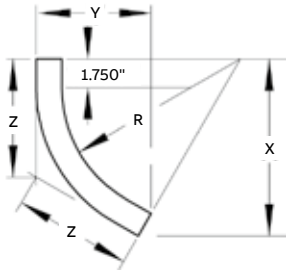
- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 06, 09, 12, 18, 24, 30, 36 in.
- Angle: 60°
- Nominal radius: 12, 24, 36 in.
- Bottom styles: V– ventilated, S– solid
- Side rail height: 2, 3, 6 in.

60° Vertical bend

Outside bend



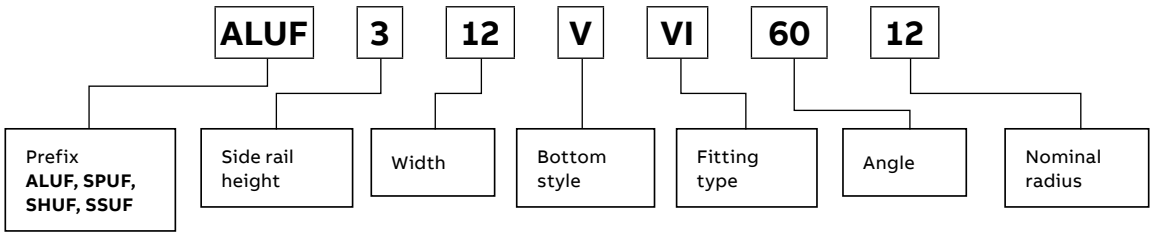
Inside bend



				Dimensions (in.)											
				(+) VO side rail height									(+) VI side rail depth		
	Nominal radius (in.)	Nominal width (in.)	Cat. no.	2 in., 3 in., 6 in.			2 in.			3 in.			6 in.		
				X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
	12	06	Prefix(†)-06-(*)-(+)60-12	10 3/8	6	6 15/16	12	7 7/8	8	13 1/2	9 5/8	9	15 3/4	12 3/16	10 1/2
	12	09	Prefix(†)-09-(*)-(+)60-12	10 3/8	6	6 15/16	12	7 7/8	8	13 1/2	9 5/8	9	15 3/4	12 3/16	10 1/2
	12	12	Prefix(†)-12-(*)-(+)60-12	10 3/8	6	6 15/16	12	7 7/8	8	13 1/2	9 5/8	9	15 3/4	12 3/16	10 1/2
	12	18	Prefix(†)-18-(*)-(+)60-12	10 3/8	6	6 15/16	12	7 7/8	8	13 1/2	9 5/8	9	15 3/4	12 3/16	10 1/2
	12	24	Prefix(†)-24-(*)-(+)60-12	10 3/8	6	6 15/16	12	7 7/8	8	13 1/2	9 5/8	9	15 3/4	12 3/16	10 1/2
	12	30	Prefix(†)-30-(*)-(+)60-12	10 3/8	6	6 15/16	12	7 7/8	8	13 1/2	9 5/8	9	15 3/4	12 3/16	10 1/2
	12	36	Prefix(†)-36-(*)-(+)60-12	10 3/8	6	6 15/16	12	7 7/8	8	13 1/2	9 5/8	9	15 3/4	12 3/16	10 1/2
	24	06	Prefix(†)-06-(*)-(+)60-24	20 13/16	12	13 7/8	22 7/16	13 7/8	14 15/16	23 15/16	15 5/8	15 15/16	26 1/8	18 3/16	17 7/16
	24	09	Prefix(†)-09-(*)-(+)60-24	20 13/16	12	13 7/8	22 7/16	13 7/8	14 15/16	23 15/16	15 5/8	15 15/16	26 1/8	18 3/16	17 7/16
	24	12	Prefix(†)-12-(*)-(+)60-24	20 13/16	12	13 7/8	22 7/16	13 7/8	14 15/16	23 15/16	15 5/8	15 15/16	26 1/8	18 3/16	17 7/16
	24	18	Prefix(†)-18-(*)-(+)60-24	20 13/16	12	13 7/8	22 7/16	13 7/8	14 15/16	23 15/16	15 5/8	15 15/16	26 1/8	18 3/16	17 7/16
	24	24	Prefix(†)-24-(*)-(+)60-24	20 13/16	12	13 7/8	22 7/16	13 7/8	14 15/16	23 15/16	15 5/8	15 15/16	26 1/8	18 3/16	17 7/16
	24	30	Prefix(†)-30-(*)-(+)60-24	20 13/16	12	13 7/8	22 7/16	13 7/8	14 15/16	23 15/16	15 5/8	15 15/16	26 1/8	18 3/16	17 7/16
	24	36	Prefix(†)-36-(*)-(+)60-24	20 13/16	12	13 7/8	22 7/16	13 7/8	14 15/16	23 15/16	15 5/8	15 15/16	26 1/8	18 3/16	17 7/16
	36	06	Prefix(†)-06-(*)-(+)60-36	31 3/16	18	20 13/16	32 13/16	19 7/8	21 7/8	34 5/16	21 5/8	22 7/8	36 1/2	24 3/16	24 3/8
	36	09	Prefix(†)-09-(*)-(+)60-36	31 3/16	18	20 13/16	32 13/16	19 7/8	21 7/8	34 5/16	21 5/8	22 7/8	36 1/2	24 3/16	24 3/8
	36	12	Prefix(†)-12-(*)-(+)60-36	31 3/16	18	20 13/16	32 13/16	19 7/8	21 7/8	34 5/16	21 5/8	22 7/8	36 1/2	24 3/16	24 3/8
	36	18	Prefix(†)-18-(*)-(+)60-36	31 3/16	18	20 13/16	32 13/16	19 7/8	21 7/8	34 5/16	21 5/8	22 7/8	36 1/2	24 3/16	24 3/8
	36	24	Prefix(†)-24-(*)-(+)60-36	31 3/16	18	20 13/16	32 13/16	19 7/8	21 7/8	34 5/16	21 5/8	22 7/8	36 1/2	24 3/16	24 3/8
	36	30	Prefix(†)-30-(*)-(+)60-36	31 3/16	18	20 13/16	32 13/16	19 7/8	21 7/8	34 5/16	21 5/8	22 7/8	36 1/2	24 3/16	24 3/8
	36	36	Prefix(†)-36-(*)-(+)60-36	31 3/16	18	20 13/16	32 13/16	19 7/8	21 7/8	34 5/16	21 5/8	22 7/8	36 1/2	24 3/16	24 3/8

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete cat. no.
Includes 1 pair of splice plates with hardware.

Part numbering system



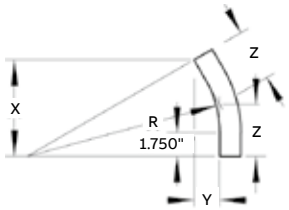
One-piece tray

45° Vertical bend fittings

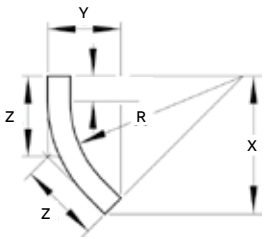
45° Vertical bend

	Nominal radius (in.)	Nominal width (in.)	Cat. no.	Dimensions (in.) (+) VO side rail height 2 in., 3 in., 6 in. X	Y	Z	2 in. X	Y	Z	3 in. X	Y	Z	(+) VI side rail depth 6 in. X	Y	Z
Outside bend ventilated	12	06	Prefix(†)-06-(*)-(+)45-12	8½	3½	5	9 13/16	5 3/8	5 3/4	11 1/16	7 1/8	6 11/16	12 7/8	9 11/16	7 9/16
	12	09	Prefix(†)-09-(*)-(+)45-12	8½	3½	5	9 13/16	5 3/8	5 3/4	11 1/16	7 1/8	6 11/16	12 7/8	9 11/16	7 9/16
	12	12	Prefix(†)-12-(*)-(+)45-12	8½	3½	5	9 13/16	5 3/8	5 3/4	11 1/16	7 1/8	6 11/16	12 7/8	9 11/16	7 9/16
	12	18	Prefix(†)-18-(*)-(+)45-12	8½	3½	5	9 13/16	5 3/8	5 3/4	11 1/16	7 1/8	6 11/16	12 7/8	9 11/16	7 9/16
	12	24	Prefix(†)-24-(*)-(+)45-12	8½	3½	5	9 13/16	5 3/8	5 3/4	11 1/16	7 1/8	6 11/16	12 7/8	9 11/16	7 9/16
	12	30	Prefix(†)-30-(*)-(+)45-12	8½	3½	5	9 13/16	5 3/8	5 3/4	11 1/16	7 1/8	6 11/16	12 7/8	9 11/16	7 9/16
	12	36	Prefix(†)-36-(*)-(+)45-12	8½	3½	5	9 13/16	5 3/8	5 3/4	11 1/16	7 1/8	6 11/16	12 7/8	9 11/16	7 9/16
	24	06	Prefix(†)-06-(*)-(+)45-24	17	7	9 15/16	18 5/16	8 7/8	10 11/16	19½	10 5/8	11 7/16	21 3/8	13 3/16	12½
	24	09	Prefix(†)-09-(*)-(+)45-24	17	7	9 15/16	18 5/16	8 7/8	10 11/16	19½	10 5/8	11 7/16	21 3/8	13 3/16	12½
	24	12	Prefix(†)-12-(*)-(+)45-24	17	7	9 15/16	18 5/16	8 7/8	10 11/16	19½	10 5/8	11 7/16	21 3/8	13 3/16	12½
	24	18	Prefix(†)-18-(*)-(+)45-24	17	7	9 15/16	18 5/16	8 7/8	10 11/16	19½	10 5/8	11 7/16	21 3/8	13 3/16	12½
	24	24	Prefix(†)-24-(*)-(+)45-24	17	7	9 15/16	18 5/16	8 7/8	10 11/16	19½	10 5/8	11 7/16	21 3/8	13 3/16	12½
	24	30	Prefix(†)-30-(*)-(+)45-24	17	7	9 15/16	18 5/16	8 7/8	10 11/16	19½	10 5/8	11 7/16	21 3/8	13 3/16	12½
	24	36	Prefix(†)-36-(*)-(+)45-24	17	7	9 15/16	18 5/16	8 7/8	10 11/16	19½	10 5/8	11 7/16	21 3/8	13 3/16	12½
	36	06	Prefix(†)-06-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	26 13/16	12 7/16	15 11/16	28	14 3/16	16 7/16	29 13/16	16¾	17½
	36	09	Prefix(†)-09-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	26 13/16	12 7/16	15 11/16	28	14 3/16	16 7/16	29 13/16	16¾	17½
	36	12	Prefix(†)-12-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	26 13/16	12 7/16	15 11/16	28	14 3/16	16 7/16	29 13/16	16¾	17½
	36	18	Prefix(†)-18-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	26 13/16	12 7/16	15 11/16	28	14 3/16	16 7/16	29 13/16	16¾	17½
	36	24	Prefix(†)-24-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	26 13/16	12 7/16	15 11/16	28	14 3/16	16 7/16	29 13/16	16¾	17½
	36	30	Prefix(†)-30-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	26 13/16	12 7/16	15 11/16	28	14 3/16	16 7/16	29 13/16	16¾	17½
	36	36	Prefix(†)-36-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	26 13/16	12 7/16	15 11/16	28	14 3/16	16 7/16	29 13/16	16¾	17½

Outside bend ventilated



Inside bend ventilated

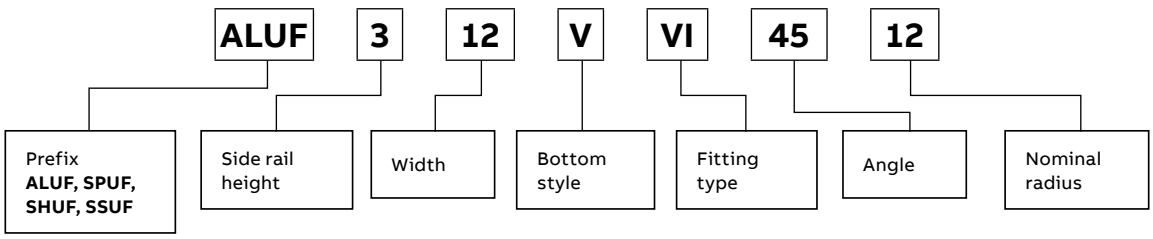


(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete cat. no.
Includes 1 pair of splice plates with hardware.

Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 06, 09, 12, 18, 24, 30, 36 in.
- Angle: 45°
- Nominal radius: 12, 24, 36 in.
- Bottom styles: V– ventilated, S– solid
- Side rail height: 2, 3, 6 in.

Part numbering system

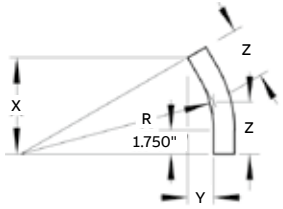


One-piece tray

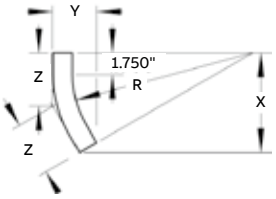
30° Vertical bend fittings

30° Vertical bend

Outside bend ventilated



Inside bend ventilated



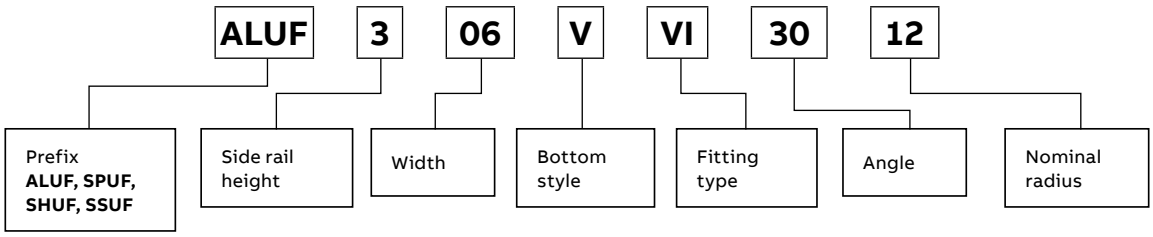
	Nominal radius (in.)	Nominal width (in.)	Cat. no.	(+) VO side rail height 2 in., 3 in., 6 in. X	Y	Z	2 in. X	Y	Z	3 in. X	Y	Z	(+) VI Side Rail Depth 6 in. X	Y	Z
	12	06	Prefix(†)-06-(*)-(+)30-12	6	1 5/8	3 3/16	6 15/16	3 1/2	3 11/16	7 13/16	5 1/4	4 3/16	9 1/8	7 13/16	4 7/8
	12	09	Prefix(†)-12-(*)-(+)30-12	6	1 5/8	3 3/16	6 15/16	3 1/2	3 11/16	7 13/16	5 1/4	4 3/16	9 1/8	7 13/16	4 7/8
	12	12	Prefix(†)-12-(*)-(+)30-12	6	1 5/8	3 3/16	6 15/16	3 1/2	3 11/16	7 13/16	5 1/4	4 3/16	9 1/8	7 13/16	4 7/8
	12	18	Prefix(†)-18-(*)-(+)30-12	6	1 5/8	3 3/16	6 15/16	3 1/2	3 11/16	7 13/16	5 1/4	4 3/16	9 1/8	7 13/16	4 7/8
	12	24	Prefix(†)-24-(*)-(+)30-12	6	1 5/8	3 3/16	6 15/16	3 1/2	3 11/16	7 13/16	5 1/4	4 3/16	9 1/8	7 13/16	4 7/8
	12	30	Prefix(†)-30-(*)-(+)30-12	6	1 5/8	3 3/16	6 15/16	3 1/2	3 11/16	7 13/16	5 1/4	4 3/16	9 1/8	7 13/16	4 7/8
	12	36	Prefix(†)-36-(*)-(+)30-12	6	1 5/8	3 3/16	6 15/16	3 1/2	3 11/16	7 13/16	5 1/4	4 3/16	9 1/8	7 13/16	4 7/8
	24	06	Prefix(†)-06-(*)-(+)30-24	12	3 3/16	6 7/16	12 15/16	5 1/16	6 15/16	13 13/16	6 13/16	7 3/8	15 1/8	9 3/8	8 1/16
	24	09	Prefix(†)-12-(*)-(+)30-24	12	3 3/16	6 7/16	12 15/16	5 1/16	6 15/16	13 13/16	6 13/16	7 3/8	15 1/8	9 3/8	8 1/16
	24	12	Prefix(†)-12-(*)-(+)30-24	12	3 3/16	6 7/16	12 15/16	5 1/16	6 15/16	13 13/16	6 13/16	7 3/8	15 1/8	9 3/8	8 1/16
	24	18	Prefix(†)-18-(*)-(+)30-24	12	3 3/16	6 7/16	12 15/16	5 1/16	6 15/16	13 13/16	6 13/16	7 3/8	15 1/8	9 3/8	8 1/16
	24	24	Prefix(†)-24-(*)-(+)30-24	12	3 3/16	6 7/16	12 15/16	5 1/16	6 15/16	13 13/16	6 13/16	7 3/8	15 1/8	9 3/8	8 1/16
	24	30	Prefix(†)-30-(*)-(+)30-24	12	3 3/16	6 7/16	12 15/16	5 1/16	6 15/16	13 13/16	6 13/16	7 3/8	15 1/8	9 3/8	8 1/16
	24	36	Prefix(†)-36-(*)-(+)30-24	12	3 3/16	6 7/16	12 15/16	5 1/16	6 15/16	13 13/16	6 13/16	7 3/8	15 1/8	9 3/8	8 1/16
	36	06	Prefix(†)-06-(*)-(+)30-36	18	4 13/16	9 5/8	18 15/16	6 11/16	10 1/8	19 13/16	8 7/16	10 5/8	21 1/8	11	11 5/16
	36	09	Prefix(†)-12-(*)-(+)30-36	18	4 13/16	9 5/8	18 15/16	6 11/16	10 1/8	19 13/16	8 7/16	10 5/8	21 1/8	11	11 5/16
	36	12	Prefix(†)-12-(*)-(+)30-36	18	4 13/16	9 5/8	18 15/16	6 11/16	10 1/8	19 13/16	8 7/16	10 5/8	21 1/8	11	11 5/16
	36	18	Prefix(†)-18-(*)-(+)30-36	18	4 13/16	9 5/8	18 15/16	6 11/16	10 1/8	19 13/16	8 7/16	10 5/8	21 1/8	11	11 5/16
	36	24	Prefix(†)-24-(*)-(+)30-36	18	4 13/16	9 5/8	18 15/16	6 11/16	10 1/8	19 13/16	8 7/16	10 5/8	21 1/8	11	11 5/16
	36	30	Prefix(†)-30-(*)-(+)30-36	18	4 13/16	9 5/8	18 15/16	6 11/16	10 1/8	19 13/16	8 7/16	10 5/8	21 1/8	11	11 5/16
	36	36	Prefix(†)-36-(*)-(+)30-36	18	4 13/16	9 5/8	18 15/16	6 11/16	10 1/8	19 13/16	8 7/16	10 5/8	21 1/8	11	11 5/16

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete cat. no.
Includes 1 pair of splice plates with hardware.

Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 06, 09, 12, 18, 24, 30, 36 in.
- Angle: 30°
- Nominal radius: 12, 24, 36 in.
- Bottom styles: V– ventilated, S– solid
- Side rail height: 2, 3, 6 in.

Part numbering system



One-piece tray

Horizontal reducer fittings

Straight reducer solid

Straight reducer ventilated

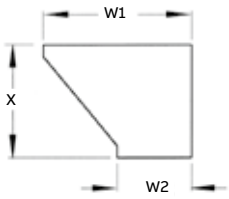
Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Tray widths W1: 36, 30, 24, 18, 12, 09 in.
- Tray widths W2: 30, 24, 18, 12, 09, 06 in.
- Bottom styles: V– ventilated, S– solid
- Side rail height: 2, 3, 6 in.

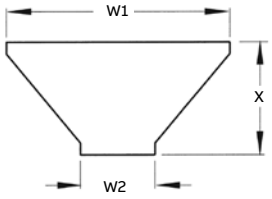
Horizontal reducer

Widths (in.)		LH reducer		Straight reducer		RH reducer	
W1	W2	Cat. no.	Dim. X (in.)	Cat. no.	Dim. X (in.)	Cat. no.	Dim. X (in.)
36	30	Prefix(†)-36-30-(*)-HLR	15 7/16	Prefix(†)-36-30-(*)-HSR	13 3/4	Prefix(†)-36-30-(*)-HRR	15 7/16
36	24	Prefix(†)-36-24-(*)-HLR	18 15/16	Prefix(†)-36-24-(*)-HSR	15 7/16	Prefix(†)-36-24-(*)-HRR	18 15/16
36	18	Prefix(†)-36-18-(*)-HLR	22 3/8	Prefix(†)-36-18-(*)-HSR	17 3/8	Prefix(†)-36-18-(*)-HRR	22 3/8
36	12	Prefix(†)-36-12-(*)-HLR	25 7/8	Prefix(†)-36-12-(*)-HSR	18 5/16	Prefix(†)-36-12-(*)-HRR	25 7/8
36	09	Prefix(†)-36-09-(*)-HLR	27 19/32	Prefix(†)-36-09-(*)-HSR	19 1/2	Prefix(†)-36-09-(*)-HRR	27 19/32
36	06	Prefix(†)-36-06-(*)-HLR	29 5/16	Prefix(†)-36-06-(*)-HSR	20 11/16	Prefix(†)-36-06-(*)-HRR	29 5/16
30	24	Prefix(†)-30-24-(*)-HLR	15 7/16	Prefix(†)-30-24-(*)-HSR	13 3/4	Prefix(†)-30-24-(*)-HRR	15 7/16
30	18	Prefix(†)-30-18-(*)-HLR	18 15/16	Prefix(†)-30-18-(*)-HSR	15 7/16	Prefix(†)-30-18-(*)-HRR	18 15/16
30	12	Prefix(†)-30-12-(*)-HLR	22 3/8	Prefix(†)-30-12-(*)-HSR	17 3/16	Prefix(†)-30-12-(*)-HRR	22 3/8
30	09	Prefix(†)-30-09-(*)-HLR	24 1/8	Prefix(†)-30-09-(*)-HSR	18 1/16	Prefix(†)-30-09-(*)-HRR	24 1/8
30	06	Prefix(†)-30-06-(*)-HLR	25 7/8	Prefix(†)-30-06-(*)-HSR	18 15/16	Prefix(†)-30-06-(*)-HRR	25 7/8
24	18	Prefix(†)-24-18-(*)-HLR	15 7/16	Prefix(†)-24-18-(*)-HSR	13 3/4	Prefix(†)-24-18-(*)-HRR	15 7/16
24	12	Prefix(†)-24-12-(*)-HLR	18 15/16	Prefix(†)-24-12-(*)-HSR	15 7/16	(Prefix(†)-24-12-(*)-HRR	18 15/16
24	09	Prefix(†)-24-09-(*)-HLR	20 21/32	Prefix(†)-24-09-(*)-HSR	16 11/32	(Prefix(†)-24-09-(*)-HRR	20 21/32
24	06	Prefix(†)-24-06-(*)-HLR	22 3/8	Prefix(†)-24-06-(*)-HSR	17 3/16	Prefix(†)-24-06-(*)-HRR	22 3/8
18	12	Prefix(†)-18-12-(*)-HLR	15 7/16	Prefix(†)-18-12-(*)-HSR	13 3/4	Prefix(†)-18-12-(*)-HRR	15 7/16
18	09	Prefix(†)-18-09-(*)-HLR	17 3/16	Prefix(†)-18-09-(*)-HSR	14 19/32	Prefix(†)-18-09-(*)-HRR	17 3/16
18	06	Prefix(†)-18-06-(*)-HLR	18 15/16	Prefix(†)-18-06-(*)-HSR	15 7/16	Prefix(†)-18-06-(*)-HRR	18 15/16
12	09	Prefix(†)-12-09-(*)-HLR	15 7/16	Prefix(†)-12-09-(*)-HSR	13 3/4	Prefix(†)-12-09-(*)-HRR	15 7/16
12	06	Prefix(†)-12-06-(*)-HLR	13 3/4	Prefix(†)-12-06-(*)-HSR	12 7/8	Prefix(†)-12-06-(*)-HRR	13 3/4
09	06	Prefix(†)-09-06-(*)-HLR	13 3/4	Prefix(†)-09-06-(*)-HSR	12 7/8	Prefix(†)-09-06-(*)-HRR	13 3/4

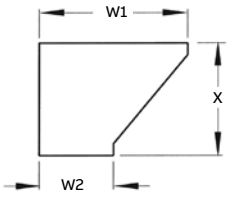
Straight reducer



Offset reducer – right

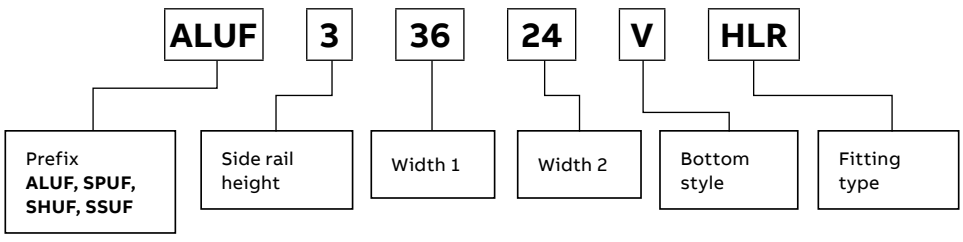


Offset reducer – left



(†) Insert side rail height. (*) Insert bottom style to complete cat. no.
Includes 1 pair of splice plates with hardware.

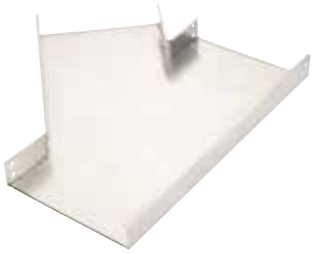
Part numbering system



One-piece tray

45° Horizontal wye fittings

Solid – left



Ventilated – left

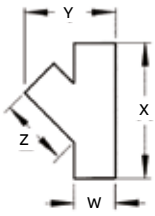
Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 06, 09, 12, 18, 24, 30, 36 in.
- Bottom styles: V– ventilated, S– solid
- Side rail height: 2, 3, 6 in.

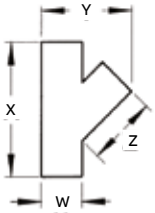
45° Horizontal wye

Width (in.)	Left-hand wye cat. no.	Right-hand wye cat. no.	Dimensions (in.) X	Y	Z
06	Prefix(†)-06-(*)-HYL	Prefix(†)-06-(*)-HYR	18 5/16	14 13/16	12 7/16
09	Prefix(†)-09-(*)-HYL	Prefix(†)-09-(*)-HYR	22 17/32	19 29/32	15 7/16
12	Prefix(†)-12-(*)-HYL	Prefix(†)-12-(*)-HYR	26 3/4	25	18 7/16
18	Prefix(†)-18-(*)-HYL	Prefix(†)-18-(*)-HYR	35 1/4	35 1/4	24 7/16
24	Prefix(†)-24-(*)-HYL	Prefix(†)-24-(*)-HYR	43 1/2	45 1/2	30 7/16
30	Prefix(†)-30-(*)-HYL	Prefix(†)-30-(*)-HYR	52 1/4	55 3/4	36 7/16
36	Prefix(†)-36-(*)-HYL	Prefix(†)-36-(*)-HYR	60 11/16	66	42 7/16

Left hand wye

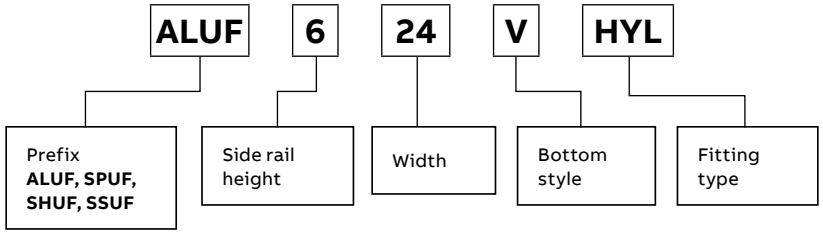


Right hand wye



(†) Insert side rail height. (*) Insert bottom style to complete cat. no.
Includes 2 pairs of splice plates with hardware.

Part numbering system

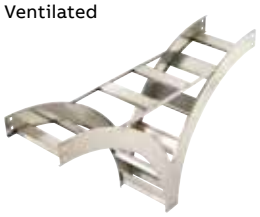


One-piece tray

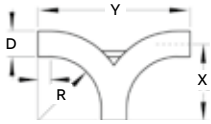
Vertical tee up/down fittings

Vertical tee up/down

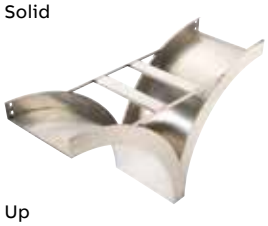
Ventilated



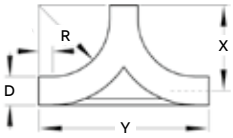
Down



Solid



Up



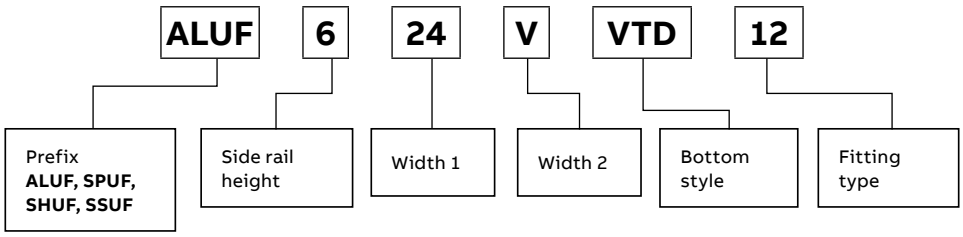
Nominal radius (in.)	Nominal width (in.)	Vertical tee up cat. no.	Vertical tee down cat. no.	Dimensions (in.) Side rail height "D" 2 in. X	2 in. Y	3 in. X	3 in. Y	6 in. X	6 in. Y
12	06	Prefix(†)-06-(*)-VTU12	Prefix-06-(*)-VTD12	12 15/16	25 7/8	13 13/16	27 5/8	15 1/8	30 3/16
12	09	Prefix(†)-09-(*)-VTU12	Prefix-09-(*)-VTD12	12 15/16	25 7/8	13 13/16	27 5/8	15 1/8	30 3/16
12	12	Prefix(†)-12-(*)-VTU12	Prefix-12-(*)-VTD12	12 15/16	25 7/8	13 13/16	27 5/8	15 1/8	30 3/16
12	18	Prefix(†)-18-(*)-VTU12	Prefix-18-(*)-VTD12	12 15/16	25 7/8	13 13/16	27 5/8	15 1/8	30 3/16
12	24	Prefix(†)-24-(*)-VTU12	Prefix-24-(*)-VTD12	12 15/16	25 7/8	13 13/16	27 5/8	15 1/8	30 3/16
12	30	Prefix(†)-30-(*)-VTU12	Prefix-30-(*)-VTD12	12 15/16	25 7/8	13 13/16	27 5/8	15 1/8	30 3/16
12	36	Prefix(†)-36-(*)-VTU12	Prefix-36-(*)-VTD12	12 15/16	25 7/8	13 13/16	27 5/8	15 1/8	30 3/16
24	06	Prefix(†)-06-(*)-VTU24	Prefix-06-(*)-VTD24	24 15/16	49 7/8	25 13/16	51 5/8	27 1/8	54 3/16
24	09	Prefix(†)-12-(*)-VTU24	Prefix-09-(*)-VTD24	24 15/16	49 7/8	25 13/16	51 5/8	27 1/8	54 3/16
24	12	Prefix(†)-12-(*)-VTU24	Prefix-12-(*)-VTD24	24 15/16	49 7/8	25 13/16	51 5/8	27 1/8	54 3/16
24	18	Prefix(†)-18-(*)-VTU24	Prefix-18-(*)-VTD24	24 15/16	49 7/8	25 13/16	51 5/8	27 1/8	54 3/16
24	24	Prefix(†)-24-(*)-VTU24	Prefix-24-(*)-VTD24	24 15/16	49 7/8	25 13/16	51 5/8	27 1/8	54 3/16
24	30	Prefix(†)-30-(*)-VTU24	Prefix-30-(*)-VTD24	24 15/16	49 7/8	25 13/16	51 5/8	27 1/8	54 3/16
24	36	Prefix(†)-36-(*)-VTU24	Prefix-36-(*)-VTD24	24 15/16	49 7/8	25 13/16	51 5/8	27 1/8	54 3/16
36	06	Prefix(†)-06-(*)-VTU36	Prefix-06-(*)-VTD36	36 15/16	73 7/8	37 13/16	75 5/8	39 1/8	78 3/16
36	09	Prefix(†)-09-(*)-VTU36	Prefix-09-(*)-VTD36	36 15/16	73 7/8	37 13/16	75 5/8	39 1/8	78 3/16
36	12	Prefix(†)-12-(*)-VTU36	Prefix-12-(*)-VTD36	36 15/16	73 7/8	37 13/16	75 5/8	39 1/8	78 3/16
36	18	Prefix(†)-18-(*)-VTU36	Prefix-18-(*)-VTD36	36 15/16	73 7/8	37 13/16	75 5/8	39 1/8	78 3/16
36	24	Prefix(†)-24-(*)-VTU36	Prefix-24-(*)-VTD36	36 15/16	73 7/8	37 13/16	75 5/8	39 1/8	78 3/16
36	30	Prefix(†)-30-(*)-VTU36	Prefix-30-(*)-VTD36	36 15/16	73 7/8	37 13/16	75 5/8	39 1/8	78 3/16
36	36	Prefix(†)-36-(*)-VTU36	Prefix-36-(*)-VTD36	36 15/16	73 7/8	37 13/16	75 5/8	39 1/8	78 3/16

(†) Insert side rail height. (*) Insert bottom style to complete cat. no.
Includes 2 pairs of splice plates with hardware.

Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 06, 09, 12, 18, 24, 30, 36 in.
- Nominal radius: 12, 24, 36 in.
- Bottom styles: V– ventilated, S– solid
- Side rail height: 2, 3, 6 in.

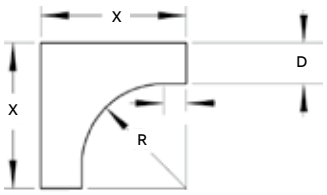
Part numbering system



One-piece tray

Cable support fittings

Cable support



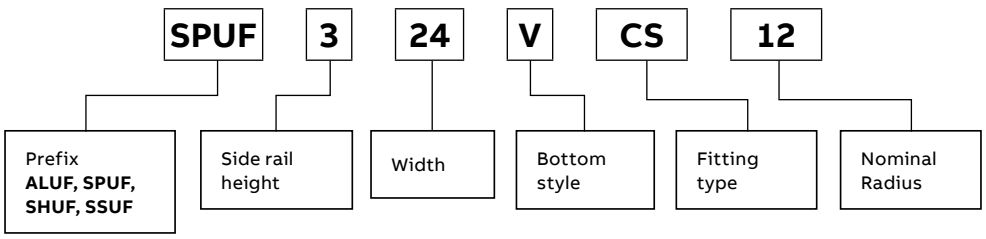
Nominal radius (in.)	Nominal width (in.)	Cat. no.	Side rail height "D" 2 in.	3 in.	6 in. X (in.)
12	06	Prefix(†)-06-(*)-CS12	13⅞	15⅝	18³⁄₁₆
12	09	Prefix(†)-09-(*)-CS12	13⅞	15⅝	18³⁄₁₆
12	12	Prefix(†)-12-(*)-CS12	13⅞	15⅝	18³⁄₁₆
12	18	Prefix(†)-18-(*)-CS12	13⅞	15⅝	18³⁄₁₆
12	24	Prefix(†)-24-(*)-CS12	13⅞	15⅝	18³⁄₁₆
12	30	Prefix(†)-30-(*)-CS12	13⅞	15⅝	18³⁄₁₆
12	36	Prefix(†)-36-(*)-CS12	13⅞	15⅝	18³⁄₁₆
24	06	Prefix(†)-06-(*)-CS24	25⅞	27⅝	30³⁄₁₆
24	09	Prefix(†)-09-(*)-CS24	25⅞	27⅝	30³⁄₁₆
24	12	Prefix(†)-12-(*)-CS24	25⅞	27⅝	30³⁄₁₆
24	18	Prefix(†)-18-(*)-CS24	25⅞	27⅝	30³⁄₁₆
24	24	Prefix(†)-24-(*)-CS24	25⅞	27⅝	30³⁄₁₆
24	30	Prefix(†)-30-(*)-CS24	25⅞	27⅝	30³⁄₁₆
24	36	Prefix(†)-36-(*)-CS24	25⅞	27⅝	30³⁄₁₆
36	06	Prefix(†)-06-(*)-CS36	37⅞	39⅝	42³⁄₁₆
36	09	Prefix(†)-09-(*)-CS36	37⅞	39⅝	42³⁄₁₆
36	12	Prefix(†)-12-(*)-CS36	37⅞	39⅝	42³⁄₁₆
36	18	Prefix(†)-18-(*)-CS36	37⅞	39⅝	42³⁄₁₆
36	24	Prefix(†)-24-(*)-CS36	37⅞	39⅝	42³⁄₁₆
36	30	Prefix(†)-30-(*)-CS36	37⅞	39⅝	42³⁄₁₆
36	36	Prefix(†)-36-(*)-CS36	37⅞	39⅝	42³⁄₁₆

(†) Insert side rail height. (*) Insert bottom style to complete cat. no.
Includes 1 pair of splice plates with hardware.

Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 06, 09, 12, 18, 24, 30, 36 in.
- Nominal radius: 12, 24, 36 in.
- Bottom styles: V– ventilated, S– solid
- Side rail height: 2, 3, 6 in.

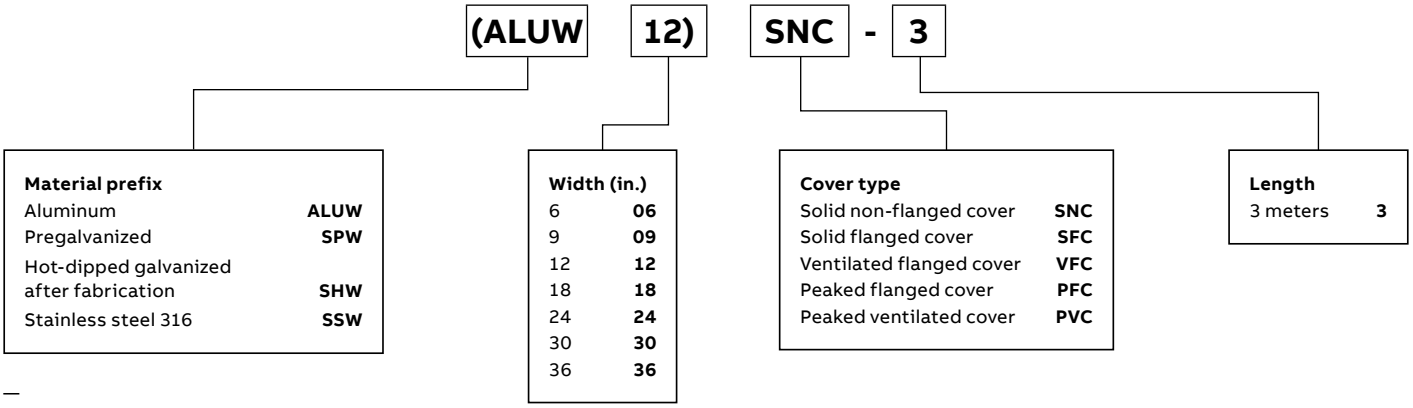
Part numbering system



One-piece tray covers

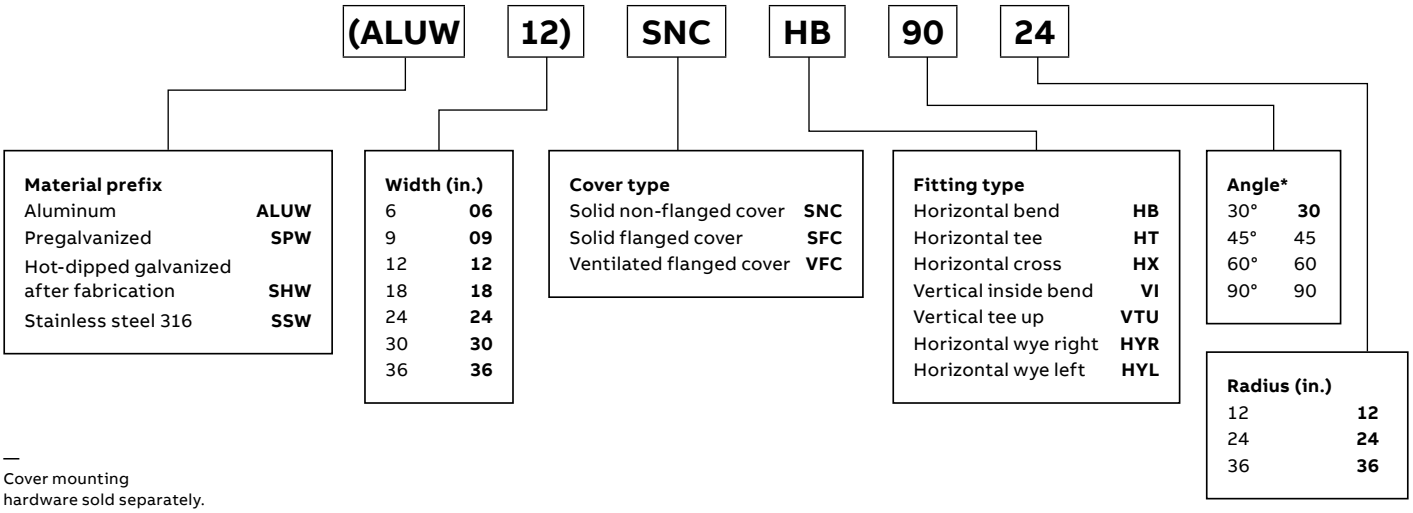
Straight and fitting covers

Straight cover number selection



—
* For SHW covers, maximum lengths are 72 in. and 1500 mm.

Fitting cover number selection

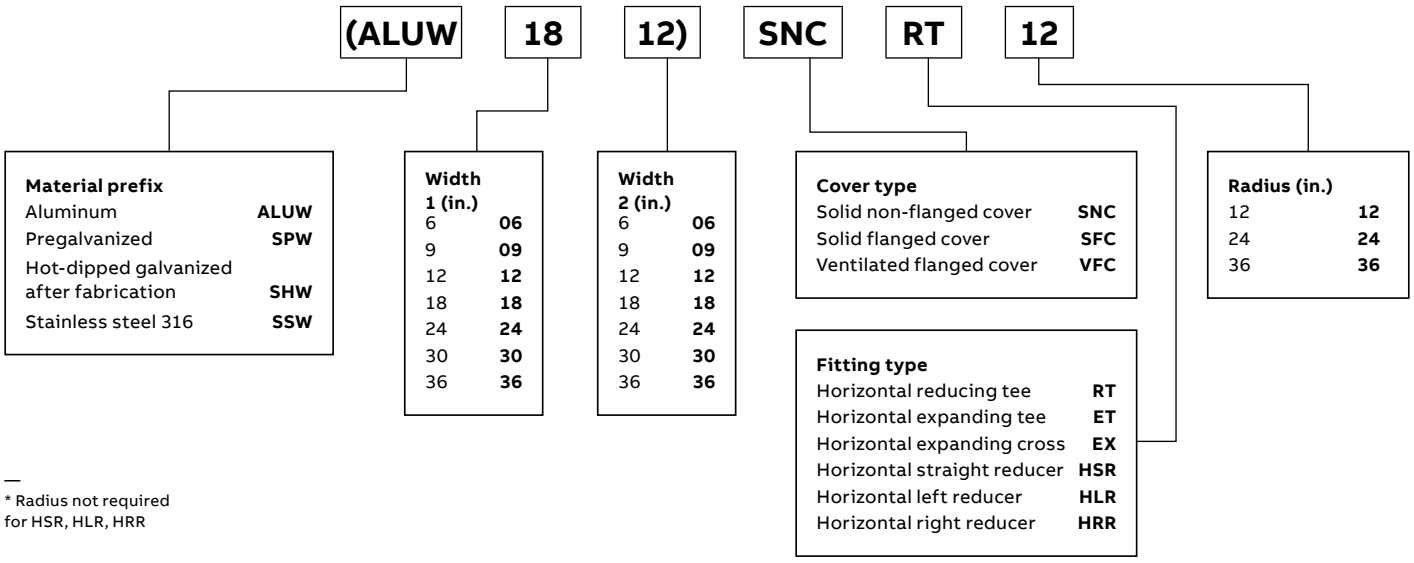


—
Cover mounting hardware sold separately.
* Required for HB and VI only.

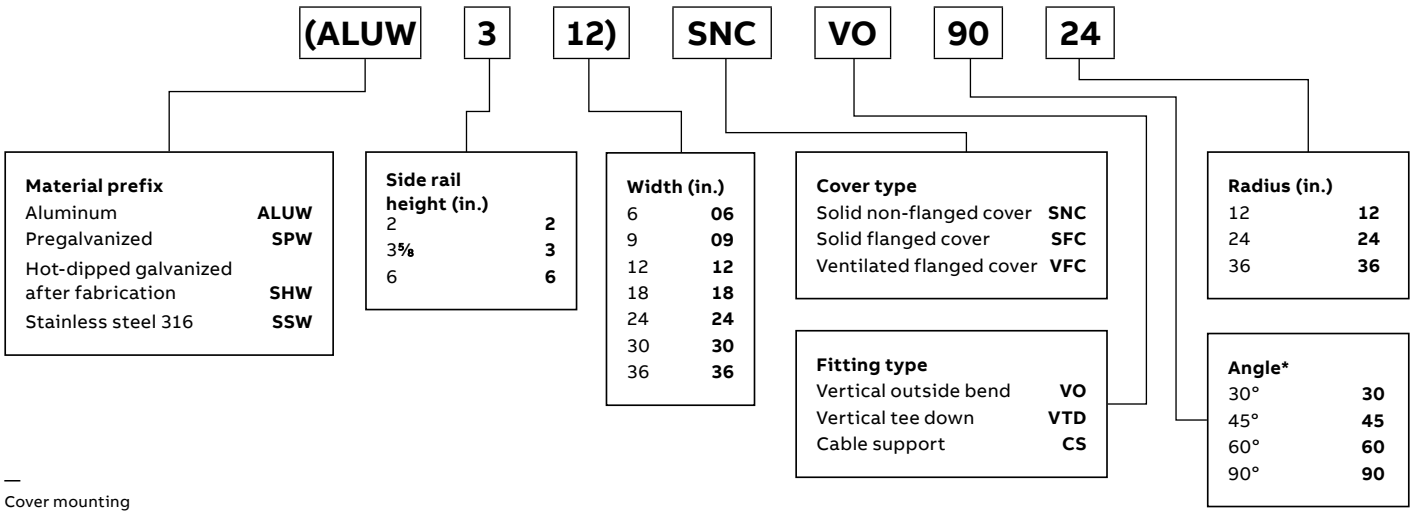
One-piece tray covers

Fitting covers

Fitting cover number selection (continued)



—
* Radius not required for HSR, HLR, HRR

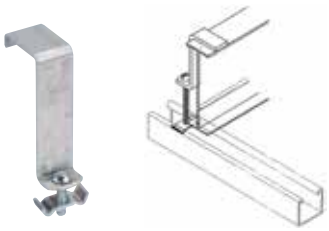


—
Cover mounting hardware sold separately.
* Required for VO only.

One-piece tray covers

Accessories for covers

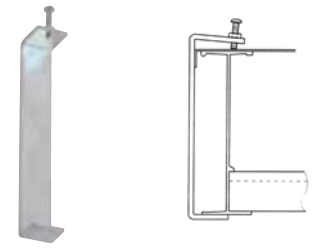
Hold-down clamp



Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-2-HDC	SPUW, SSUW, SHUW	2
(Prefix)-3-HDC	SPUW, SSUW, SHUW	3
(Prefix)-6-HDC	SPUW, SSUW, SHUW	6

Designed to secure cable tray to support system.

Cover clamp



Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-2-SCC	SPUW, SSUW	2
(Prefix)-3-SCC	SPW, SSW	3
(Prefix)-6-SCC	SPW, SSW	6

Rigid cover clamp for flat and flanged covers.

Heavy-duty cover clamp

Selection guide

- Tray widths: 06, 09, 12, 18, 24, 30, 36 in.

Cat. no.	Material prefix	Side rail height (in.	Tray width (in.)
(Prefix)-2-**-HCC	ALUW, SPUW, SSUW, SHUW	2	06 to 36
(Prefix)-3-**-HCC	ALUW , SPW, SHW, SSW	3	06 to 36
(Prefix)-6-**-HCC	ALUW , SPW, SHW, SSW	6	06 to 36

One-piece tray splice plates

Standard, expansion splice plate and reducing splice

Standard splice plate

- Packaged in pairs with hardware
- Kit contents: 8 bolts, 8 serrated flange nuts 3/8 in. diameter
- Provided as standard with each straight and/or fitting

Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-2-SSP	ALUW, SPUW, SSUW, SHUW	2
(Prefix)-3-SSP	ALUW, SPW, SSW, SHW	3
(Prefix)-6-SSP	ALUW, SPW, SSW, SHW	6

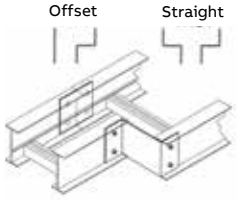
Expansion splice plate

- Allows for a 1 in. expansion or contraction of tray system
- Packaged in pairs with hardware
- Kit contents: 8 bolts, 4 stop nuts, 4 serrated flange nuts 3/8 in. diameter

Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-2-ESP	ALUW, SPUW, SSUW, SHUW	2
(Prefix)-3-ESP	ALUW, SPW, SSW, SHW	3
(Prefix)-6-ESP	ALUW, SPW, SSW, SHW	6

Reducing splice

- Used in pairs to provide a straight reduction or used with a standard splice plate for an offset reduction
- One per package with hardware
- Kit contents: 4 bolts, 4 nuts



Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-2(*)-RSP	ALUW, SPUW, SSUW, SHUW	2
(Prefix)-3(*)-RSP	ALUW, SPW, SSW, SHW	3
(Prefix)-6(*)-RSP	ALUW, SPW, SSW, SHW	6

*Note: For offset reduction: Insert width to be reduced. For straight reduction: Insert ½ width to be reduced (2 required)
Example: ALUW-603-RSP = 3 in. offset reducer

One-piece tray barrier strips

Horizontal and vertical barriers strips, barrier clamp and splice strips

SBH

SB

- Barrier strips provide a method of separating cables in tray and trough systems
- Easily installed using supplied hardware or barrier strip clamps (sold separately)
- 72 in. barriers are flexible for use with horizontal fittings

Horizontal barrier strips

Cat. no.	Material prefix	Height (in.)	Length
(Prefix)-2-SB-3	ALUW, SPUW, SHUW*,SSUW	2	3 m
(Prefix)-3-SB-3	ALUW, SPUW, SHUW*,SSUW	3	3 m
(Prefix)-6-SB-3	ALUW, SPUW, SHUW*,SSUW	6	3 m
(Prefix)-2-SBH-72	ALUW, SPUW, SHUW*,SSUW	2	72 in.
(Prefix)-3-SBH-72	ALUW, SPUW, SHUW*,SSUW	3	72 in.
(Prefix)-6-SBH-72	ALUW, SPUW, SHUW*,SSUW	6	72 in.

NOTE: 72 in. barriers provided with 3 SPW10SCR, 3 m barriers provided with 6 SPW10SCR
*Available in 1500 mm only.

- Preformed to fit all standard steel vertical bends.
- Provided with hardware
- Height 2, 3, 6 in.
- Angle 30, 45, 60, 90°
- Radius 12, 24, 36 in.

Vertical barriers strips

Inside bend cat. no.	Outside bend cat. no.	Material prefix	Height (in.)	Angle (°)	Radius (in.)
(Prefix)-2-VIB-(*)-(**)	Prefix-2-VOB-(*)-(**)	ALUW, SPUW, SHUW†, SSUW	2 to 6	30 to 90	12 to 36
(Prefix)-3-VIB-(*)-(**)	Prefix-3-VOB-(*)-(**)	ALUW, SPUW, SHUW†, SSUW	2 to 6	30 to 90	12 to 36
(Prefix)-6-VIB-(*)-(**)	Prefix-6-VOB-(*)-(**)	ALUW, SPUW, SHUW†, SSUW	2 to 6	30 to 90	12 to 36
		ALUW, SPUW, SHUW†, SSUW	2 to 6	30 to 90	12 to 36

(*) Insert angle (**) Insert radius. †Available in 1500 mm only.

- Barrier strip clamps mount barrier strips to ladder rungs and ventilated bottoms
- Complete mounting hardware supplied

Barrier strip clamp

Cat. no.	Material
SPW-BSC	Zinc-plated steel
SSW-BSC	Stainless steel 316

Barrier strip splice

Cat. no.	Material prefix
ABW-BSS	SPW
	SPW

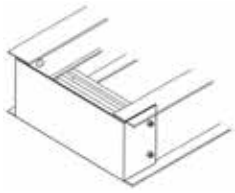
Alignment splice for joining connecting barrier strips.

One-piece tray accessories

Closure end plate and drop out

Closure end plate

- Tray width: 06, 09, 12, 18, 24, 30, 36 in.



Cat. no.	Material prefix	Side rail height (in.)	Tray width (in.)
(Prefix)-2-**-CEP	ALUW, SPUW, SHUW, SSUW	2	06 to 36
(Prefix)-3-**-CEP	ALUW, SPW, SSW, SHW	3	06 or 36
(Prefix)-6-**-CEP	ALUW, SPW, SSW, SHW	6	06 or 36

Provides closure for any tray end. Hardware included.
** Insert tray width

Drop out

- Designed to provide a smooth radius surface at any position on the tray or trough bottom
- Drop outs are easily attached using hardware provided
- Standard radius = 4 in.
- Width : 06, 09, 12, 18, 24, 30, 36 in.

Cat. no.	Material prefix	Width (in.)
(Prefix)-**-DOS	ALUW, SPW, SHW, SSW	06 to 36

** Insert tray width

One-piece tray accessories

Steel tray hardware, horizontal and vertical adjustable plates

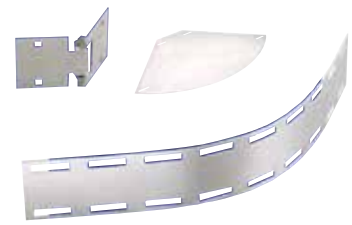
Steel tray hardware

Cat. no.	Material	Description
SPW-1/4-CB	Zinc-plated steel	¼ in. carriage bolt
SPW-3/8-CB	Zinc-plated steel	⅜ in. carriage bolt
SPW-1/4-HN	Zinc-plated steel	¼ in. serrated flange nuts
SPW-3/8-HN	Zinc-plated steel	⅜ in. serrated flange nuts
SSW-3/8-CB	316 stainless	⅜ in. carriage bolt
SSW-3/8-HN	316 stainless	⅜ in. hex. nut
SSW-3/8-HWK*	316 stainless	316 stainless steel hardware kit

Square shoulder self-positioning carriage bolt.
* Hardware kit: Contains 8 serrated flange nuts, 8 bolts.

- Adjustable hinge plates provide maximum horizontal installation flexibility.
- Furnished as a kit with hardware.
- Tray widths : 06, 09, 12, 18, 24, 30, 36 in.

Flexible coupler



Cat. no.	Material prefix	Side rail height (in.)	Tray width (in.)
(Prefix)-(*)(**)-HAP	ALUW, SPUW, SSUW, SHUW	2, 3, 6	06 to 36

(*) Insert side rail height
(**) Insert tray width

- Adjustable hinge plates provide maximum horizontal installation flexibility for elevation changes
- Furnished as a kit with hardware
- Tray widths : 06, 09, 12, 18, 24, 30, 36 in.

Vertical adjustable plate

Cat. no.	Material prefix	Side rail height (in.)	Tray width (in.)
(Prefix)-*-**-VSP	ALUW, SPUW, SSUW, SHUW	2, 3, 6	06 to 36

*Insert side rail height
**Insert width

One-piece tray covers accessories

Horizontal tee branch and box-to-tray plates

- Designed to secure tray to electrical panels or boxes, walls or end supports
- Packaged in pairs with hardware
- Tray widths : 06, 09, 12, 18, 24, 30, 36 in.

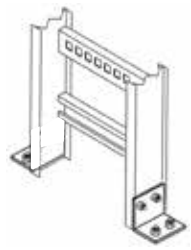
Horizontal tee branch

Cat. no.	Material prefix	Side rail height (in.)	Tray width (in.)
(Prefix)-(*)-(**)-HTB	ALUW, SPUW, SSUW, SHUW	2, 3, 6	06 to 36

(*) Insert side rail height
(**) Insert width

- Designed to secure tray to electrical panels or boxes, walls or end supports
- Packaged in pairs with hardware

Box-to-tray plates



Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-2-BSP	ALUW, SPUW, SSUW, SHUW	2
(Prefix)-3-BSP	ALUW, SPW, SSW, SHW	3
(Prefix)-6-BSP	ALUW, SPW, SSW, SHW	6

Channel tray
Selection guide

— 01 Solid channel
— 02 Ventilated channel

To ensure that your channel tray installation will meet your present and future needs, a sequence of decisions must be made. These decisions are relatively simple and can be condensed down to four steps.

1. Material choice

Materials
- Aluminum
- Pregalvanized steel
- Hot-dipped galvanized steel
- Stainless steel
- Coatings
- Other

T&B channel tray systems are fabricated from a corrosion-resistant metal (low-carbon steel, stainless steel or an aluminum alloy) or from a metal with a corrosion-resistant finish (zinc or epoxy). The choice of material for any particular installation depends on the installation environment (corrosion and electrical considerations) and cost. Please refer to the technical section (pages A8 to A29) for further explanation.

2. Type of tray bottom

Bottom type
- Ventilated
- Solid

Cable channel
- T&B offers cable channel in solid or ventilated straight sections.
- Ventilated channel has burr-free oblong punched holes for easy access.
- Ty-Rap cable tie slots are provided between each opening for securing of cable.
- T&B channel tray meets NEMA VE-1/CSA C22.22.

3. T&B channel tray width

Widths
- 1.5 in.
- 3 in.
- 4 in.
- 6 in.

The width of a channel tray is a function of the number, size, spacing and weight of the cables in the tray. Available nominal widths are 1.5, 3, 4 and 6 inches.

When specifying width, cable ties or other spacing devices may be used to maintain the required air space between cables.

— 01

— 02

4. Fittings selection

Fittings type
- Horizontal bends (90°, 60°, 45° and 30°)
- Horizontal tees and crosses
- Vertical bends (90°, 60°, 45° and 30°)

Fittings are used to change the size or direction of the channel tray. The most important decision to be made in fitting design concerns radius. The radius of the bend, whether horizontal or vertical, can be zero (non-radius), 12 in., 24 in. or greater on a custom basis. The selection requires a compromise with the considerations being available space, minimum bending radius of cables, ease of cable pulling and cost.
The typical radius is 24 inches.

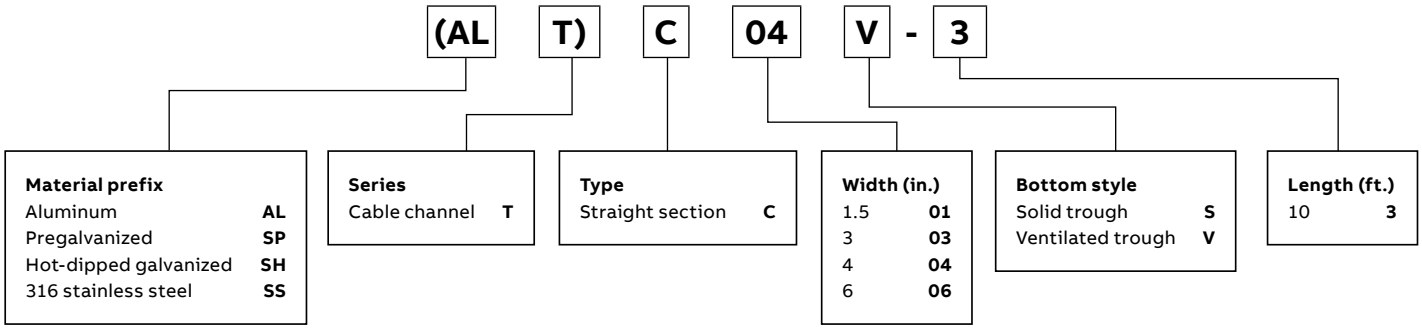
Fittings are also available for 30°, 45°, 60° and 90° angles. When a standard angle will not work, adjustable elbows can be used. It may be necessary to add supports to the tray at these points.

Refer to CSA/NEMA VE2 installation guidelines for suggested support locations.

Straight section number selection

How to create straight section part numbers
1. Select the material
2. Select nominal width of tray
3. Select the bottom type
4. The last number is the length of the channel tray

Example:
ALTC04V-3
- Aluminum
- 4 in. wide
- Ventilated bottom
- 10 ft. length



Channel tray straight lengths

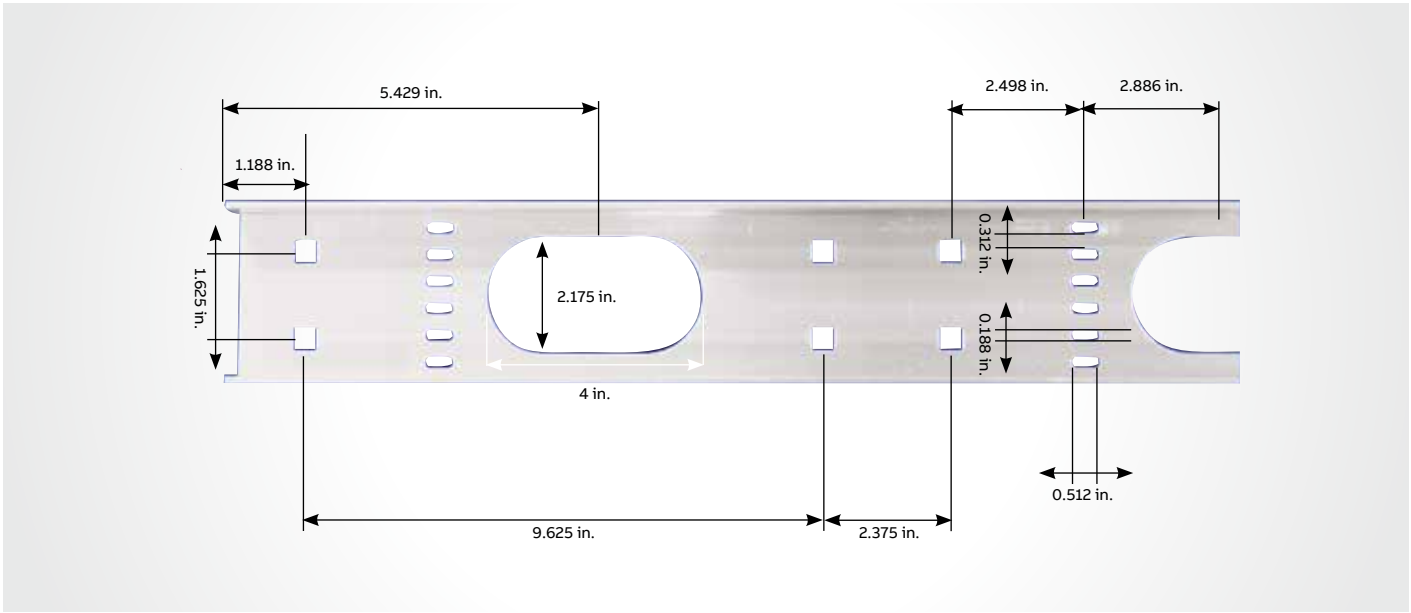
Straight lengths – Solid and ventilated

—
01 Bottom view of ventilated channel tray larger than 1.5 in. wide

Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dipped galv.), SST (stainless steel)
- Inside channel widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
- Bottom styles: V– ventilated, S– solid

—
01



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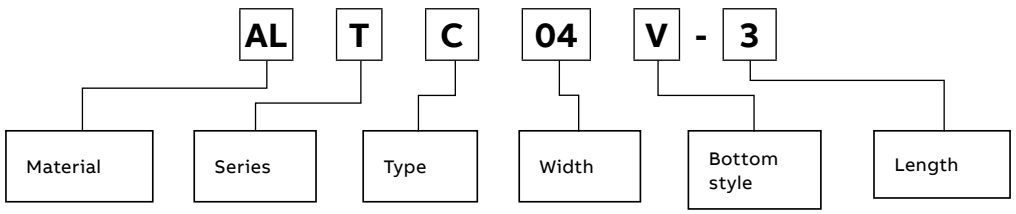
Part numbering system



Channel tray straight lengths

Straight lengths selection guide – Solid and ventilated

01 Vented style offered in 1.5 in. wide only

02 Vented style offered in 3 in., 4 in., 6 in. wide only

03 Solid offered in all widths

01

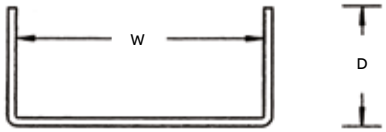
02

03

Channel tray straight lengths

Aluminum straight lengths – Solid and ventilated

Aluminum



- Solid: Aluminum – extruded material
- Ventilated: Pre-punched burr-free oblong holes with Ty-Rap slots between each opening
- Accessories: One connector complete with hardware supplied with each length
- Material: Aluminum-6063-T6

Aluminum solid straight lengths

Aluminum solid	Channel width (W) (in.)	Depth (D) (in.)		Support span (feet) 2	4	6	8	10
ALTC	1.5	¾	Load (lb/ft.)	47.5	11.9	5.4	3.0	1.9
	1.5	¾	Deflection (in.)	0.170	0.680	0.745	1.325	2.070
	3	1⅜	Load (lb/ft.)	362.5	90.6	40.3	22.7	17.0
	3	1⅜	Deflection (in.)	0.083	0.330	0.743	1.322	2.065
	4	1⅝	Load (lb/ft.)	580.0	145.0	64.4	36.3	24.0
	4	1⅝	Deflection (in.)	0.065	0.260	0.585	1.041	1.626
	6	1¾	Load (lb/ft.)	607.5	151.9	67.5	38.0	25.0
	6	1¾	Deflection (in.)	0.061	0.244	0.550	0.977	1.527

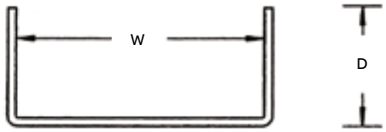
Aluminum ventilated straight lengths

Aluminum ventilated	Channel width (W) (in.)	Depth (D) (in.)		Support span (feet) 2	4	6	8	10
ALTC	1.5	¾	Load (lb/ft.)	47.5	11.9	5.4	3.0	1.9
	1.5	¾	Deflection (in.)	0.170	0.680	0.745	1.325	2.070
	3	1⅜	Load (lb/ft.)	300.0	75.0	33.3	18.8	14.0
	3	1⅜	Deflection (in.)	0.100	0.400	0.900	1.600	2.500
	4	1⅝	Load (lb/ft.)	525.0	131.3	58.3	32.8	19.0
	4	1⅝	Deflection (in.)	0.074	0.295	0.664	1.181	1.846
	6	1¾	Load (lb/ft.)	580.0	145.0	64.4	36.3	21.0
	6	1¾	Deflection (in.)	0.065	0.261	0.587	1.044	1.631

Channel tray straight lengths

Steel straight lengths – Solid and ventilated

Steel



- Solid: Steel – roll-formed steel
- Ventilated: Pre-punched burr-free oblong holes with Ty-Rap slots between each opening
- Accessories: One connector complete with hardware supplied with each length
- Material: Pregalvanized, hot-dipped galvanized, 316 stainless steel

Steel solid straight lengths

Steel solid	Channel width (W) (in.)	Depth (D) (in.)		Support span (feet) 2	4	6	8	10
SPTC SHTC SSTC	1.5	¾	Load (lb/ft.)	97.5	24.4	10.8	6.1	3.9
	1.5	¾	Deflection (in.)	0.045	0.181	0.408	0.725	1.133
	3	1⅜	Load (lb/ft.)	252.0	63.0	28.0	15.8	17.0
	3	1⅜	Deflection (in.)	0.034	0.134	0.302	0.538	0.840
	4	1⅝	Load (lb/ft.)	408.0	102.0	45.3	25.5	24.0
	4	1⅝	Deflection (in.)	0.026	0.105	0.237	0.421	0.658
	6	1¾	Load (lb/ft.)	432.0	108.0	48.0	27.0	25.0
	6	1¾	Deflection (in.)	0.024	0.096	0.217	0.386	0.603

Steel ventilated straight lengths

Steel ventilated	Channel width (W) (in.)	Depth (D) (in.)		Support span (feet) 2	4	6	8	10
SPTC SHTC SSTC	1.5	¾	Load (lb/ft.)	97.5	24.4	10.8	6.1	3.9
	1.5	¾	Deflection (in.)	0.045	0.181	0.408	0.725	1.133
	3	1⅜	Load (lb/ft.)	207.0	51.8	23.0	12.9	14.0
	3	1⅜	Deflection (in.)	0.041	0.163	0.366	0.652	1.018
	4	1⅝	Load (lb/ft.)	363.0	90.8	40.3	22.7	19.0
	4	1⅝	Deflection (in.)	0.030	0.119	0.269	0.477	0.746
	6	1¾	Load (lb/ft.)	405.0	101.3	45.0	25.3	21.0
	6	1¾	Deflection (in.)	0.027	0.106	0.239	0.425	0.664

Channel tray
Fittings

—
01 Horizontal cross
—
02 90° Horizontal bend

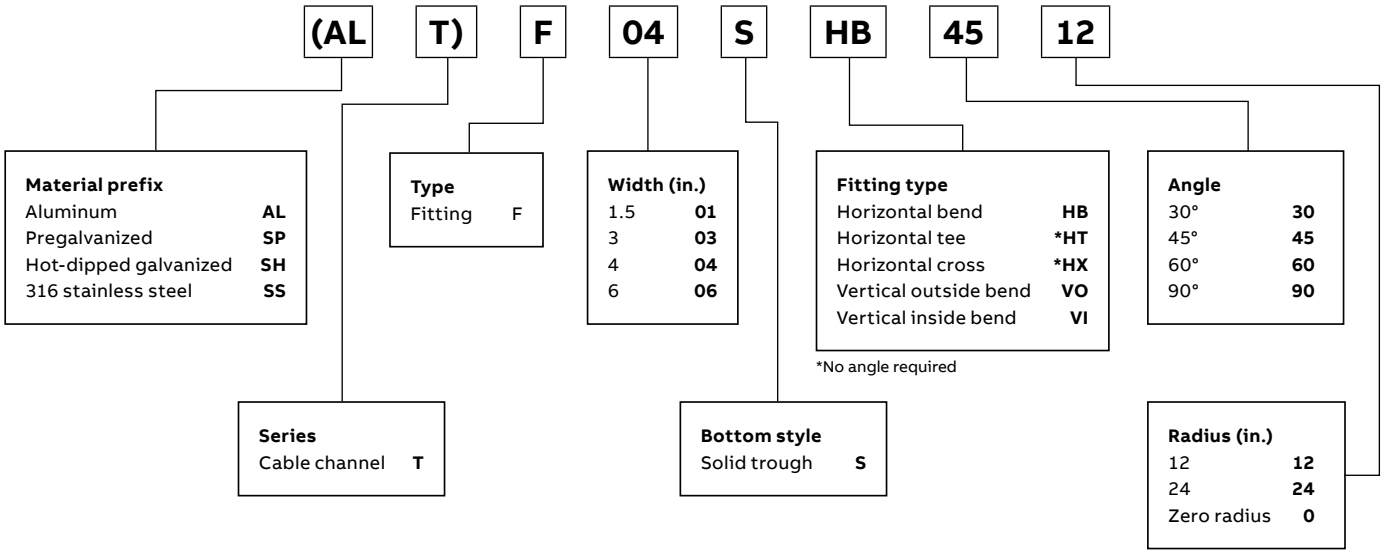
—
01

—
02

Fittings number selection

How to create fitting part numbers
1. Select fitting material
2. Select nominal width of fitting
3. Select type of fitting
4. Select degree of angle if required
5. Select radius

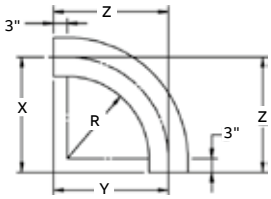
Example:
ALTF04SHB4512
- Aluminum
- 4 in. wide
- Horizontal bend
- 45° degree
- 12 in. radius



Channel tray fittings

90° Horizontal bend fittings

90° Horizontal bend



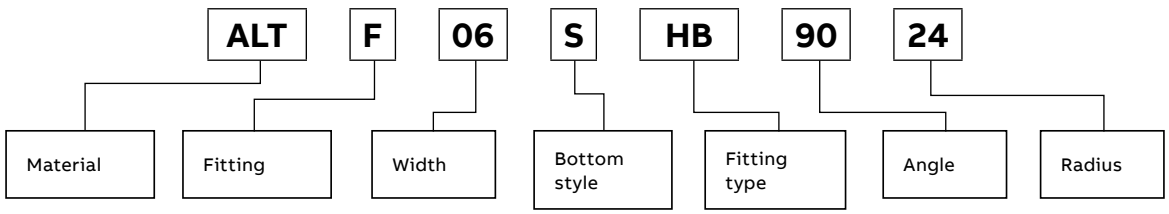
Radius** R (in.)	Width W (in.)	Cat. no.*	Dimensions (in.) X	Y
12	1.5	(Prefix)-F 01-S-HB90-12	15¾	15¾
12	3	(Prefix)-F 03-S-HB90-12	16½	16½
12	4	(Prefix)-F 04-S-HB90-12	17	17
12	6	(Prefix)-F 06-S-HB90-12	18	18
24	1.5	(Prefix)-F 01-S-HB90-24	27¾	27¾
24	3	(Prefix)-F 03-S-HB90-24	28½	28½
24	4	(Prefix)-F 04-S-HB90-24	29	29
24	6	(Prefix)-F 06-S-HB90-24	30	30

*Specify prefixes ALT, SPT, SHT or SST+
**Specify radius 0, 12 or 24

Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
- Bottom style: S– solid
- Radius: 0, 12 or 24

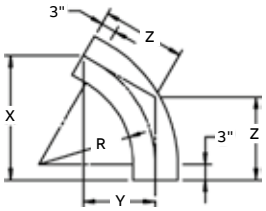
Part numbering system



Channel tray fittings

60° Horizontal bend fittings

60° Horizontal bend



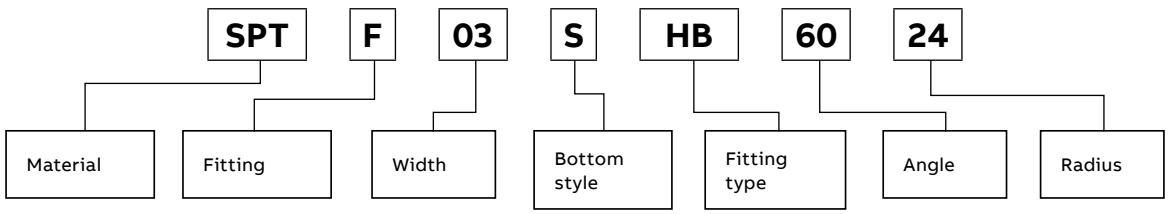
Radius** R (in.)	Width W (in.)	Cat. no.*	Dimensions (in.) X	Y	Z
12	1.5	(Prefix)-F 01-S-HB60-12	15½	9	10¼
12	3	(Prefix)-F 03-S-HB60-12	16 3/16	9⅜	10 13/16
12	4	(Prefix)-F 04-S-HB60-12	16⅝	9⅝	11 1/16
12	6	(Prefix)-F 06-S-HB60-12	17½	10⅛	11 11/16
24	1.5	(Prefix)-F 01-S-HB60-24	26	15	17¼
24	3	(Prefix)-F 03-S-HB60-24	26 9/16	15⅜	17¾
24	4	(Prefix)-F 04-S-HB60-24	27	15⅝	18
24	6	(Prefix)-F 06-S-HB60-24	27⅞	16⅛	18 9/16

*Specify prefixes ALT, SPT, SHT or SST+
**Specify radius 0, 12 or 24

Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
- Bottom style: S– solid
- Radius: 0, 12 or 24

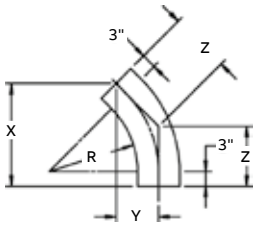
Part numbering system



Channel tray fittings

45° Horizontal bend fittings

45° Horizontal bend



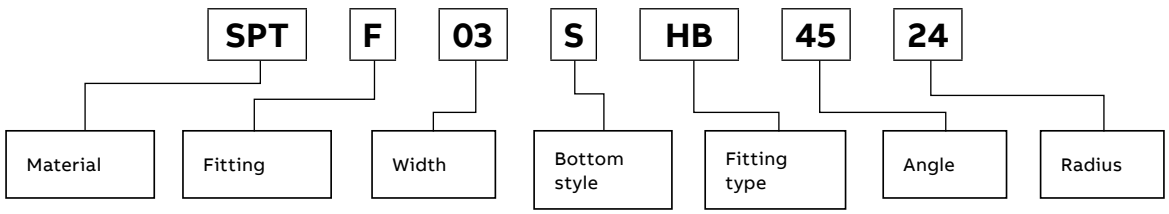
Radius** R (in.)	Width W (in.)	Cat. no.*	Dimensions (in.) X	Y	Z
12	1.5	(Prefix)-F 01-S-HB45-12	14 1/8	5 7/8	8 1/4
12	3	(Prefix)-F 03-S-HB45-12	14 11/16	6 1/16	8 9/16
12	4	(Prefix)-F 04-S-HB45-12	15	6 1/4	8 13/16
12	6	(Prefix)-F 06-S-HB45-12	15 3/4	6 1/2	9 3/16
24	1.5	(Prefix)-F 01-S-HB45-24	22 5/8	9 3/8	13 1/4
24	3	(Prefix)-F 03-S-HB45-24	23 1/8	9 9/16	13 9/16
24	4	(Prefix)-F 04-S-HB45-24	23 1/2	9 3/4	13 3/4
24	6	(Prefix)-F 06-S-HB45-24	24 3/16	10	14 3/16

*Specify prefixes ALT, SPT, SHT or SST+
**Specify radius 0, 12 or 24

Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
- Bottom style: S– solid
- Radius: 0, 12 or 24

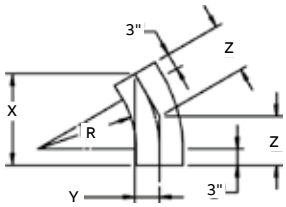
Part numbering system



Channel tray fittings

30° Horizontal bend fittings

30° Horizontal bend



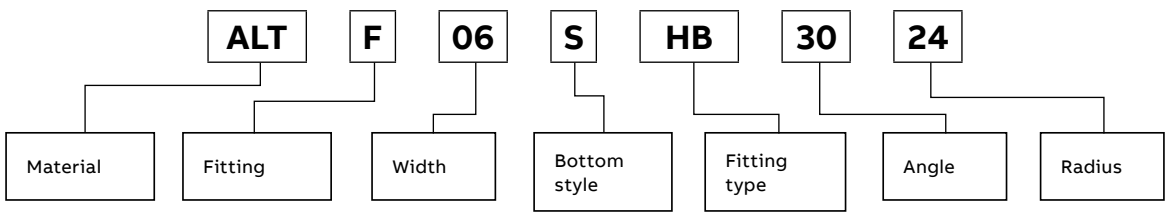
Radius** R (in.)	Width W (in.)	Cat. no.*	Dimensions (in.) X	Y	Z
12	1.5	(Prefix)-F 01-S-HB30-12	12	3¼	6½
12	3	(Prefix)-F 03-S-HB30-12	12⅜	3⁵⁄₁₆	6⅝
12	4	(Prefix)-F 04-S-HB30-12	12⅝	3-⅜	6¾
12	6	(Prefix)-F 06-S-HB30-12	13⅛	3½	7
24	1.5	(Prefix)-F 01-S-HB30-24	18	4¾	9⅝
24	3	(Prefix)-F 03-S-HB30-24	18⅜	4¹⁵⁄₁₆	9¹³⁄₁₆
24	4	(Prefix)-F 04-S-HB30-24	18⅝	5	9¹⁵⁄₁₆
24	6	(Prefix)-F 06-S-HB30-24	19⅛	5⅛	10¼

*Specify prefixes ALT, SPT, SHT or SST+
**Specify radius 0, 12 or 24

Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
- Bottom style: S– solid
- Radius: 0, 12 or 24

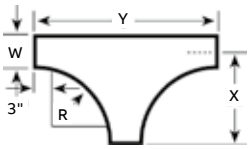
Part numbering system



Channel tray fittings

Horizontal tee fittings

Horizontal tee



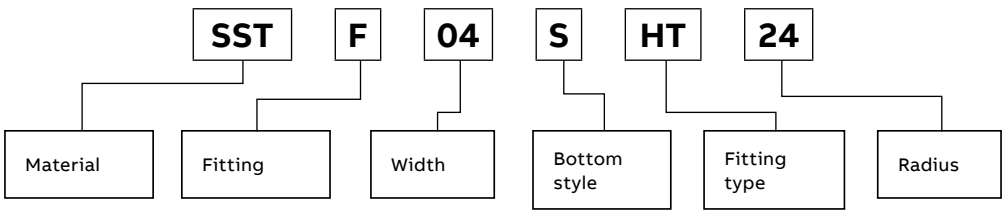
Radius** R (in.)	Width W (in.)	Cat. no.*	Dimensions (in.) X	Y
12	1.5	(Prefix)-F 01-S-HT-12	15¾	31½
12	3	(Prefix)-F 03-S-HT-12	16½	33
12	4	(Prefix)-F 04-S-HT-12	17	34
12	6	(Prefix)-F 06-S-HT-12	18	36
24	1.5	(Prefix)-F 01-S-HT-24	27¾	55½
24	3	(Prefix)-F 03-S-HT-24	28½	57
24	4	(Prefix)-F 04-S-HT-24	29	58
24	6	(Prefix)-F 06-S-HT-24	30	60

*Specify prefixes ALT, SPT, SHT or SST+
**Specify radius 0, 12 or 24

Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
- Bottom style: S– solid
- Radius: 0, 12 or 24

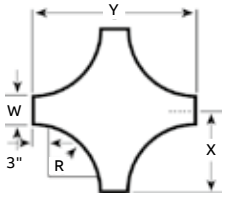
Part numbering system



Channel tray fittings

Horizontal cross fittings

Horizontal cross



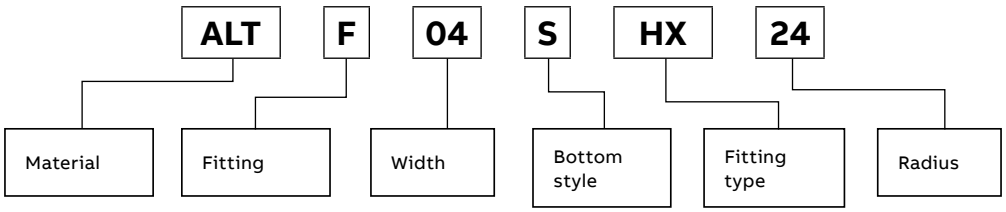
Radius** R (in.)	Width W (in.)	Cat. no.*	Dimensions (in.) X	Y
12	1.5	(Prefix)-F 01-S-HX-12	15¾	31½
12	3	(Prefix)-F 03-S-HX-12	16½	33
12	4	(Prefix)-F 04-S-HX-12	17	34
12	6	(Prefix)-F 06-S-HX-12	18	36
24	1.5	(Prefix)-F 01-S-HX-24	27¾	55½
24	3	(Prefix)-F 03-S-HX-24	28½	57
24	4	(Prefix)-F 04-S-HX-24	29	58
24	6	(Prefix)-F 06-S-HX-24	30	60

*Specify prefixes ALT, SPT, SHT or SST+
**Specify radius 0, 12 or 24

Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
- Bottom style: S– solid
- Radius: 0, 12 or 24

Part numbering system



Channel tray fittings

90° Vertical outside/inside bend fittings

90° Vertical outside bend

Radius** R (in.)	Width W (in.)	Cat. no.*	Dimensions (in.) X	Y
12	1.5	(Prefix)-F 01-S-VO90-12	15	15
12	3	(Prefix)-F 03-S-VO90-12	15	15
12	4	(Prefix)-F 04-S-VO90-12	15	15
12	6	(Prefix)-F 06-S-VO90-12	15	15
24	1.5	(Prefix)-F 01-S-VO90-24	15	15
24	3	(Prefix)-F 03-S-VO90-24	27	27
24	4	(Prefix)-F 04-S-VO90-24	27	27
24	6	(Prefix)-F 06-S-VO90-24	27	27

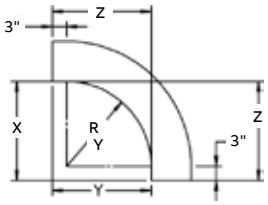
*Specify prefixes ALT, SPT, SHT or SST+
**Specify radius 0, 12 or 24

90° Vertical inside bend

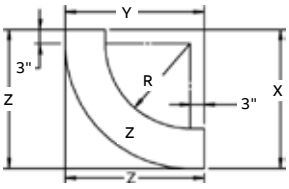
Radius** R (in.)	Width W (in.)	Cat. no.*	Dimensions (in.) X	Y
12	1.5	(Prefix)-F 01-S-VI90-12	15¾	15¾
12	3	(Prefix)-F 03-S-VI90-12	16½	16½
12	4	(Prefix)-F 04-S-VI90-12	16⅞	16⅞
12	6	(Prefix)-F 06-S-VI90-12	16⅞	16⅞
24	1.5	(Prefix)-F 01-S-VI90-24	27¾	27¾
24	3	(Prefix)-F 03-S-VI90-24	28½	28½
24	4	(Prefix)-F 04-S-VI90-24	28⅞	28⅞
24	6	(Prefix)-F 06-S-VI90-24	28⅞	28⅞

*Specify prefixes ALT, SPT, SHT or SST+
**Specify radius 0, 12 or 24

90° Outside bend



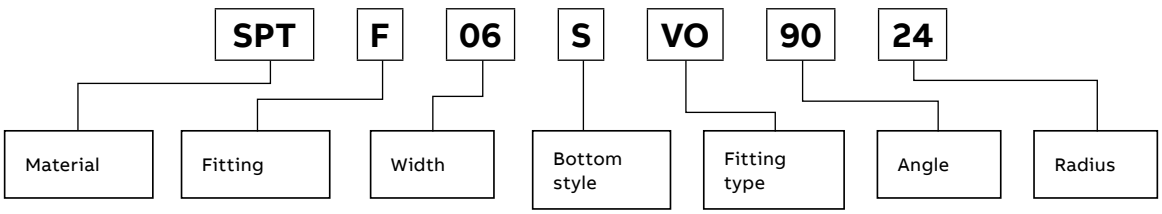
90° Inside bend



Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
- Bottom style: S– solid
- Radius: 0, 12 or 24

Part numbering system



Channel tray fittings

60° Vertical outside/inside bend fittings

60° Vertical outside bend

Radius** R (in.)	Width W (in.)	Cat. no.*	Dimensions (in.) X	Y	Z
12	1.5	(Prefix)-F 01-S-VO60-12	14⅞	8⅝	9⅞
12	3	(Prefix)-F 03-S-VO60-12	14⅞	8⅝	9⅞
12	4	(Prefix)-F 04-S-VO60-12	14⅞	8⅝	9⅞
12	6	(Prefix)-F 06-S-VO60-12	14⅞	8⅝	9⅞
24	1.5	(Prefix)-F 01-S-VO60-24	25¼	14⅝	16⅞
24	3	(Prefix)-F 03-S-VO60-24	25¼	14⅝	16⅞
24	4	(Prefix)-F 04-S-VO60-24	25¼	14⅝	16⅞
24	6	(Prefix)-F 06-S-VO60-24	25¼	14⅝	16⅞

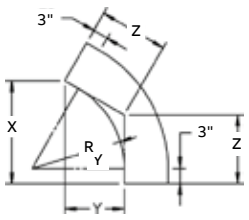
*Specify prefixes ALT, SPT, SHT or SST+
**Specify radius 0, 12 or 24

60° Vertical inside bend

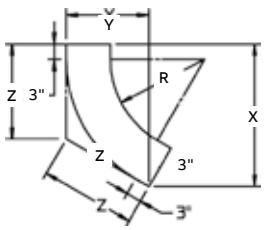
Radius** R (in.)	Width W (in.)	Cat. no.*	Dimensions (in.) X	Y	Z
12	1.5	(Prefix)-F 01-S-VI60-12	15½	9	10¼
12	3	(Prefix)-F 03-S-VI60-12	16⅛	9¼	10¾
12	4	(Prefix)-F 04-S-VI60-12	16¼	9⅜	10⅞
12	6	(Prefix)-F 06-S-VI60-12	16⅜	9½	11
24	1.5	(Prefix)-F 01-S-VI60-24	26	15	17¼
24	3	(Prefix)-F 03-S-VI60-24	26½	15¼	17⅝
24	4	(Prefix)-F 04-S-VI60-24	26¾	15⅜	17¾
24	6	(Prefix)-F 06-S-VI60-24	26¾	15½	17⅞

*Specify prefixes ALT, SPT, SHT or SST+
**Specify radius 0, 12 or 24

60° Outside bend



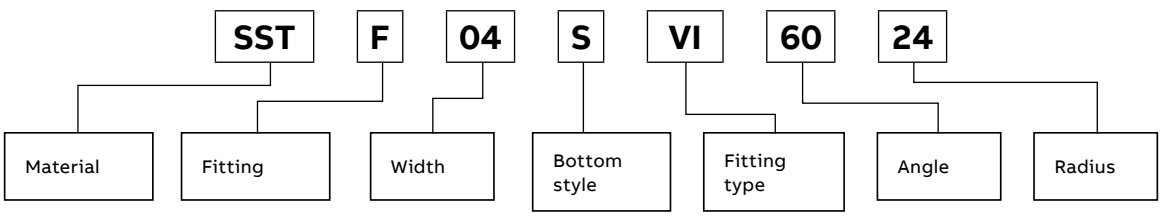
60° Inside bend



Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
- Bottom style: S– solid
- Radius: 0, 12 or 24

Part numbering system



Channel tray fittings

45° Vertical outside/inside bend fittings

45° Vertical outside bend

Radius R (in.)	Width W (in.)	Cat. no.	Dimensions (in.) X	Y	Z
12	1.5	(Prefix)-F 01-S-VO45-12	13⅝	5⅝	8
12	3	(Prefix)-F 03-S-VO45-12	13⅝	5⅝	8
12	4	(Prefix)-F 04-S-VO45-12	13⅝	5⅝	8
12	6	(Prefix)-F 06-S-VO45-12	13⅝	5⅝	8
24	1.5	(Prefix)-F 01-S-VO45-24	22⅛	9⅛	12⅞
24	3	(Prefix)-F 03-S-VO45-24	22⅛	9⅛	13
24	4	(Prefix)-F 04-S-VO45-24	11	11	13
24	6	(Prefix)-F 06-S-VO45-24	11	11	13

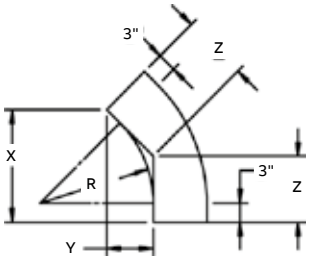
*Specify prefixes ALT, SPT, SHT or SST+
**Specify radius 0, 12 or 24

45° Vertical inside bend

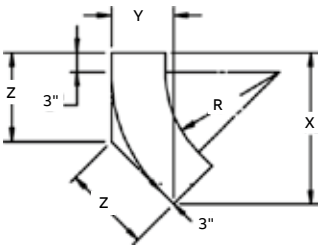
Radius R (in.)	Width W (in.)	Cat. no.	Dimensions (in.) X	Y	Z
12	1.5	(Prefix)-F 01-S-VI45-12	13⅝	5⅝	8
12	3	(Prefix)-F 03-S-VI45-12	13⅝	5⅝	8
12	4	(Prefix)-F 04-S-VI45-12	13⅝	5⅝	8
12	6	(Prefix)-F 06-S-VI45-12	13⅝	5⅝	8
24	1.5	(Prefix)-F 01-S-VI45-24	22⅛	9⅛	12⅞
24	3	(Prefix)-F 03-S-VI45-24	22⅛	9⅛	13
24	4	(Prefix)-F 04-S-VI45-24	11	11	13
24	6	(Prefix)-F 06-S-VI45-24	11	11	13

*Specify prefixes ALT, SPT, SHT or SST+
**Specify radius 0, 12 or 24

45° Outside bend



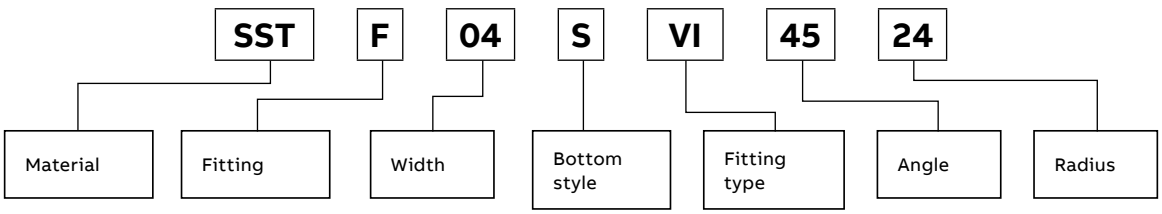
45° Inside bend



Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
- Bottom style: S– solid
- Radius: 0, 12 or 24

Part numbering system



Channel tray fittings

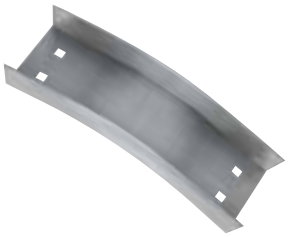
30° Vertical outside/inside bend fittings

30° Vertical outside bend

Radius R (in.)	Width W (in.)	Cat. no.	Dimensions (in.) X	Y	Z
12	1.5	(Prefix)-F 01-S-VO30-12	10⅛	1⅞	5¼
12	3	(Prefix)-F 03-S-VO30-12	11⅝	3⅛	6⅛
12	4	(Prefix)-F 04-S-VO30-12	11⅝	3⅛	6⅛
12	6	(Prefix)-F 06-S-VO30-12	11⅝	3⅛	6⅛
24	1.5	(Prefix)-F 01-S-VO30-24	17⅝	4¾	9½
24	3	(Prefix)-F 03-S-VO30-24	17⅝	4¾	9¼
24	4	(Prefix)-F 04-S-VO30-24	17⅝	4¾	9¼
24	6	(Prefix)-F 06-S-VO30-24	17⅝	4¾	9¼

*Specify prefixes ALT, SPT, SHT or SST+
**Specify radius 0, 12 or 24

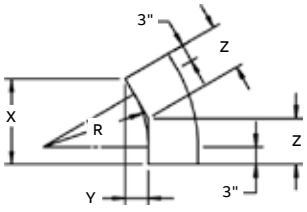
30° Vertical inside bend



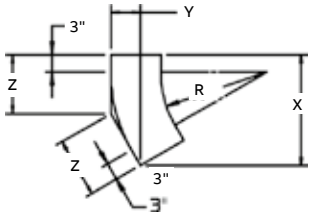
Radius R (in.)	Width W (in.)	Cat. no.	Dimensions (in.) X	Y	Z
12	1.5	(Prefix)-F 01-S-VI30-12	10⅜	1⅞	5⅜
12	3	(Prefix)-F 03-S-VI30-12	12¼	3½	6⅜
12	4	(Prefix)-F 04-S-VI30-12	12⅜	3⅜	5⅝
12	6	(Prefix)-F 06-S-VI30-12	12½	3⅜	5⅝
24	1.5	(Prefix)-F 01-S-VI30-24	18	4¾	9⅝
24	3	(Prefix)-F 03-S-VI30-24	18¼	4⅞	9¾
24	4	(Prefix)-F 04-S-VI30-24	18⅜	4⅞	9⅞
24	6	(Prefix)-F 06-S-VI30-24	18½	5	9⅞

*Specify prefixes ALT, SPT, SHT or SST+
**Specify radius 0, 12 or 24

30° Outside bend



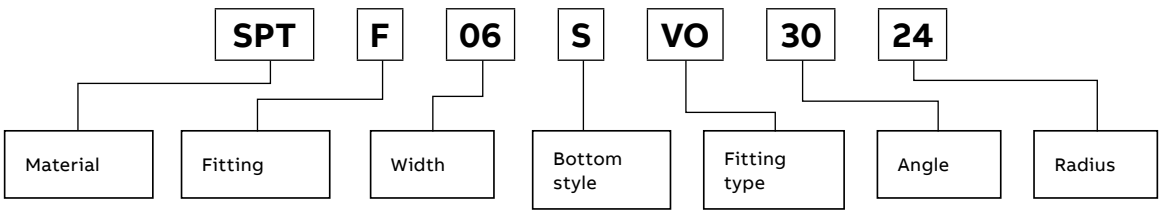
30° Inside bend



Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
- Bottom style: S– solid
- Radius: 0, 12 or 24

Part numbering system



Channel tray covers

Cover selection guide

Cover mounting hardware must be ordered separately.

Tray covers

Tray covers are available for all widths of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Straight covers

- These covers provide maximum mechanical protection for cables with limited heat build up
- Flanged covers have ½ in. flange

Quantity of standard cover clamps required	
Straight section (10 ft.)	6 pcs.

NOTE: When using the heavy-duty cover clamps, only half the quantity of pieces are required.

Straight cover number selection

(AL	T)	F	03	SFC	3

Material prefix

Aluminum	**AL**
Pregalvanized	**SP**
Hot-dipped galvanized	**SH**
316 stainless steel	**SS**

Series prefix

Cable channel	**T**

Type
Accessory
i.e.: Straight cover

Width (in.)

1.5	**01**
3	**03**
4	**04**
6	**06**

Cover style

Solid flanged covers	**SFC**

Length (ft.)

10	**3**

* Hot-dipped galvanized covers only available in 1500 mm lengths.

Cover mounting hardware must be ordered separately.

Fitting covers

- Fitting covers are available to complete your cable channel layout
- All fitting covers are flanged

Quantity of standard cover clamps required	
Horizontal and vertical bends	4 pcs.
Tees	6 pcs.
Crosses	8 pcs.

Note: When using the heavy-duty cover clamps, only half the quantity of pieces are required.

Fittings cover number selection

(AL T) F 06 HBC 45 12

Material prefix	
Aluminum	**AL**
Pregalvanized	**SP**
Hot-dipped galvanized	**SH**
316 stainless steel	**SS**

Series prefix	
Cable channel	**T**

Type	
Fitting cover	**F**

Width (in.)	
1.5	**01**
3	**03**
4	**04**
6 in.	**06**

Fitting type	
Horizontal bend	**HBC**
Horizontal tee	**HTC**
Horizontal cross	**HXC**
Vertical outside bend	**VOC**
Vertical inside bend	**VIC**

Angle*	
30°	**30**
45°	**45**
60°	**60**
90°	**90**

Radius (in.)	
12	**12**
24	**24**
Zero radius†	**0**

*Required for HB, VI and VO only.

† Contact your regional sales office for availability.

Channel tray splice plates

Standard and expansion splice plates

Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.

Standard 1.5 in. splice plate

Cat. no.	Width (in.)
(Prefix)-W-01-CCS	1.5

Supplied standard with each length.
Including hardware: 2 bolts, 2 washers, ⅜ in. diameter.

Standard splice plate

Cat. no.	Width (in.)
(Prefix)-W-03-CCS	3
(Prefix)-W-04-CCS	4
(Prefix)-W-06-CCS	6

Supplied standard with each length.
Including hardware: 4 bolts, 4 nuts, 4 washers, ⅜ in. diameter.

Expansion splice plate

Cat. no.	Width (in.)
(Prefix)-W-01-ESP	1.5
(Prefix)-W-03-ESP	3
(Prefix)-W-04-ESP	4
(Prefix)-W-06-ESP	6

Supplied with hardware for 1.5 in. wide channel: 2 bolts, 2 nuts; all other widths: 4 bolts, 2 stop nuts, 2 serrated flange nuts, 4 lock washers (stainless steel ony), ⅜ in. diameter.

Channel tray splice plates

Wraparound and adjustable splice plates

Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.

Wraparound splice plate

Cat. no.	Width (in.)
(Prefix)-W-01-ACS	1.5
(Prefix)-W-03-ACS	3
(Prefix)-W-04-ACS	4
(Prefix)-W-06-ACS	6

Supplied with hardware for 1.5 in. wide channel: 2 bolts, 2 nuts; all other widths: 4 bolts, 4 nuts, 4 washers, ⅜ in. diameter.

Adjustable horizontal splice plate

Cat. no.	Width (in.)
(Prefix)-W-01-CHA	1.5
(Prefix)-W-03-CHA	3
(Prefix)-W-04-CHA	4
(Prefix)-W-06-CHA	6

Standard vertical adjustable splice plate

Cat. no.	Width (in.)
(Prefix)-W-01-CCV	1.5
(Prefix)-W-03-CCV	3
(Prefix)-W-04-CCV	4
(Prefix)-W-06-CCV	6

Channel tray clamps and hardware

Wraparound splice plates and clamps

Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.

Wraparound vertical adjustable splice plate

Cat. no.	Width (in.)
(Prefix)-W-01-WAV	1.5
(Prefix)-W-03-WAV	3
(Prefix)-W-04-WAV	4
(Prefix)-W-06-WAV	6

Standard hold-down clamp

Cat. no.	Width (in.)
(Prefix)-W-01-SHC	1.5
(Prefix)-W-03-SHC	3
(Prefix)-W-04-SHC	4
(Prefix)-W-06-SHC	6

Channel expansion guide clamp

Cat. no.	Width (in.)
(Prefix)-W-01-CEG	1.5
(Prefix)-W-03-CEG	3
(Prefix)-W-04-CEG	4
(Prefix)-W-06-CEG	6

Combination hold-down/cover clamp

Cat. no.	Width (in.)
(Prefix)-W-01-CCC	1.5
(Prefix)-W-03-CCC	3
(Prefix)-W-04-CCC	4
(Prefix)-W-06-CCC	6

Channel tray clamps and hardware

Cover clamps, end plates and channel brackets

Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.

Heavy-duty cover clamp

Cat. no.	Width (in.)
(Prefix)-W-01-HCC	1.5
(Prefix)-W-03-HCC	3
(Prefix)-W-04-HCC	4
(Prefix)-W-06-HCC	6

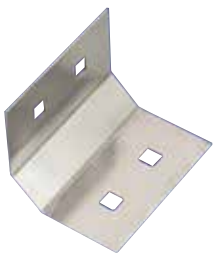
Closed end plate

Cat. no.	Width (in.)
(Prefix)-W-01-CEP	1.5
(Prefix)-W-03-CEP	3
(Prefix)-W-04-CEP	4
(Prefix)-W-06-CEP	6

Channel-mounting bracket

Cat. no.	Width (in.)
(Prefix)-W-01-CCB	1.5
(Prefix)-W-03-CCB	3
(Prefix)-W-04-CCB	4
(Prefix)-W-06-CCB	6

Channel-to-cable-tray plate



Cat. no.	Width (in.)
(Prefix)-W-01-CCT	1.5
(Prefix)-W-03-CCT	3
(Prefix)-W-04-CCT	4
(Prefix)-W-06-CCT	6

Channel tray brackets and hangers

Reducer plates, base plates, mounting brackets and hangers

Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.

Channel straight reducer plate

Cat. no.	Width (in.)
(*)-W-03-01-RSP	3 to 1
(*)-W-04-01-RSP	4 to 1
(*)-W-06-01-RSP	6 to 1
(*)-W-04-03-RSP	4 to 3
(*)-W-06-03-RSP	6 to 3
(*)-W-06-04-RSP	6 to 4

Channel-to-floor base plate

Cat. no.	Width (in.)
(Prefix)-W-01-CBP	1.5
(Prefix)-W-03-CBP	3
(Prefix)-W-04-CBP	4
(Prefix)-W-06-CBP	6

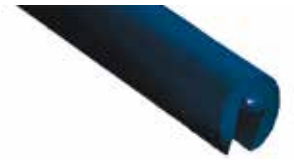
Single channel hanger

Cat. no.	Width (in.)
SPT-W-06-CCH	For use with all widths
SHT-W-06-CCH	For use with all widths
SST-W-06-CCH	For use with all widths

Designed for use with ½ in. threaded rod

Channel tray brackets and hangers

Hangers and channel rubber edge trim



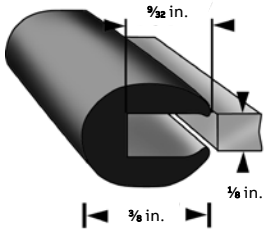
- Product specifications: Recommended temperature range: -40 °C through 107 °C
- Recommended temperature range if ordered with adhesive: -23 °C through 70 °C
- Base material: Dense neoprene rubber
- Very flexible to fit tight radius
- Wear- and fuel-resistant neoprene
- Available on request with pre-applied butyl sealant or hot-melted adhesive

Double channel hanger

	Cat. no.	Width (in.)
	SPT-W-06-DCH	For use with all widths
	SHT-W-06-DCH	For use with all widths

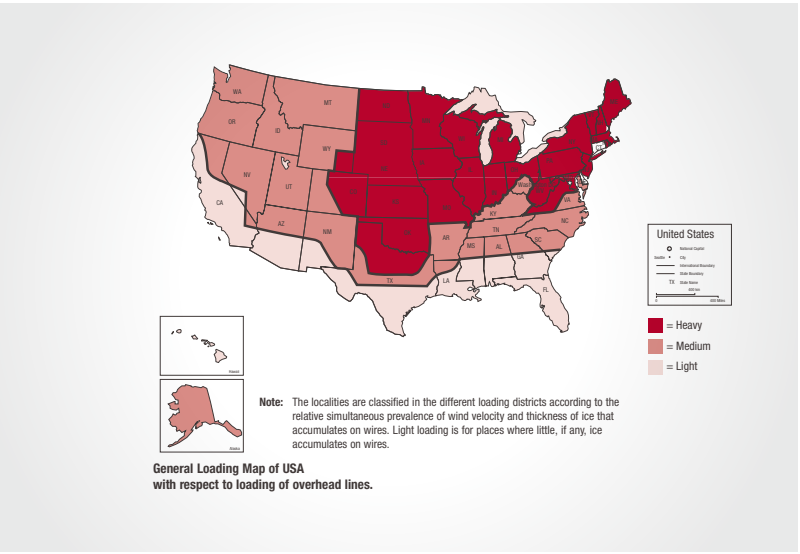
Designed for use with ½ in. threaded rod

Channel rubber edge trim

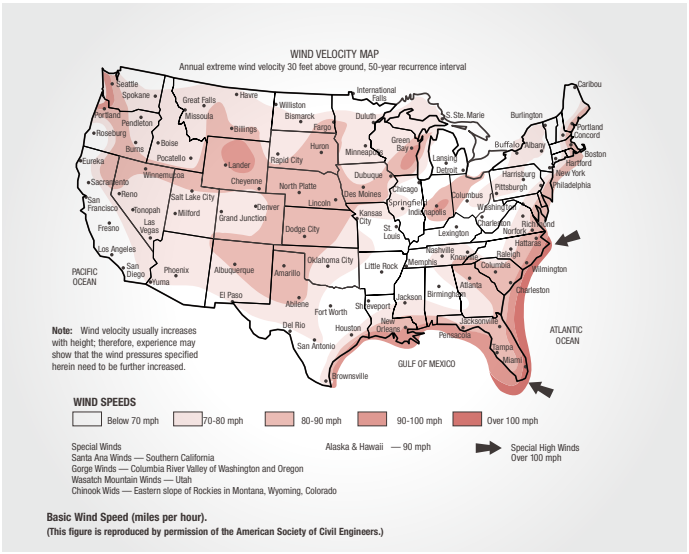
	Cat. no.	Width	Description
	RET-BUSH	For use with 3 in., 4 in. and 6 in.	Rubber edge trim – 10¾ in. bushing – standard pack of 10
	RET-50	For use with all widths	Rubber edge trim – 50 foot roll
	RET-500	For use with all widths	Rubber edge trim – 500 foot roll

Ice and wind loading maps

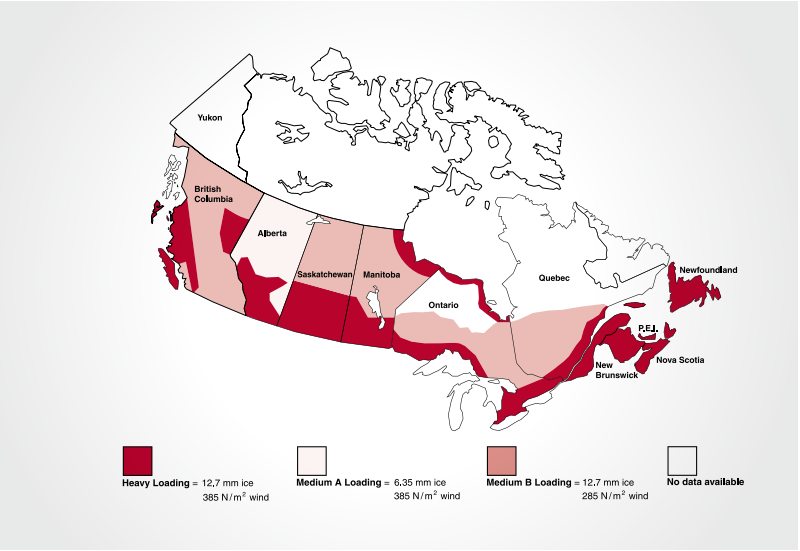
Figure 250-1USA and 250-2USA loading for grades B, C and D



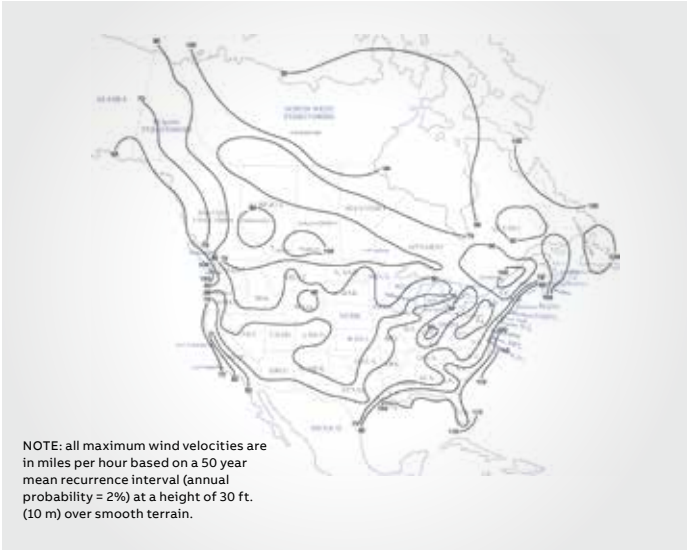
01



02



03



04

01 General loading map of USA with respect to loading of overhead lines.

02 Basic wind speed (miles per hour) – USA.

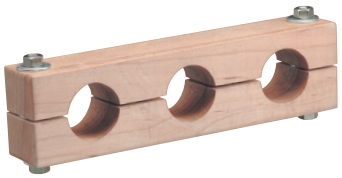
03 General loading map of Canada with respect to loading of overhead lines.

04 Basic wind speed (miles per hour) – Canada.

Figure 250-2CDN is a wind map of North America reproduced from ASCE 7-88 [52]. For Hawaii and Puerto Rico, the basic wind speeds are 80 mph and 95 mph, respectively.

Note: Wind velocity usually increases with height; therefore, experience may show that the wind pressures specified herein need to be further increased.

Common accessories
Custom maple block



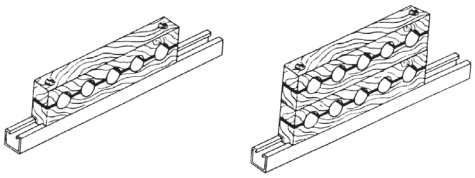
Custom maple hardwood block

- Maple hardwood, paraffin wax impregnated, multiple cable blocks can be made to your specific requirements.
- Cable blocks are to ensure proper separation of single conductor cables, which prevents any interference due to magnetic fields. The maple hardwood blocks are paraffin wax impregnated to prevent moisture from penetrating and causing rotting and splitting.
- Cable blocks are also available in high-density polyethylene.
- Price and delivery upon request.
- Electrogalvanized hardware included; however, stainless steel hardware is also available upon request.

Maple hardwood block catalogue selector

(MB) 3 - 15 - 1.8125 - DH

Material prefix	Number of rows of holes	Total number of holes	Hole diameter	Hardware
Maple block **MB**	Please specify	Please specify	Please specify	No hardware included **Blank** Hardware included **DH** Stainless steel hardware included **DHSS**



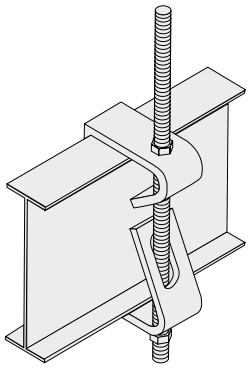
Common accessories

Cable tray support systems

Hanger rod clamp

These clamps are designed for ladder and ventilated cable tray. They provide a fast and economical solution for a suspended cable tray installation. One kit is needed per each threaded rod location.

- Kit consists of: one bottom clamp, one top clamp
- Uses ½ in. threaded rod (order separately)
- 250 lb capacity per kit
- Height available: 3, 4, 5, 6, 7 in.



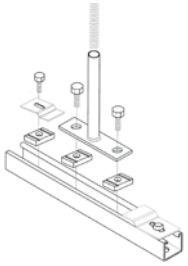
	For steel cable tray		
	Cat. no.	**Material prefix**	**Height (in.)**
	(Prefix)-*-HRC	SPW, SSW, SHW	3 to 7
	ABW36-HRC	Aluminum	3 to 7

(*) Insert height.

Center support bracket

This system is designed to reduce cable pulling by allowing access from both sides of cable tray. Installation cost and time are reduced significantly by single-point suspension.

- Supplied as a complete kit
- Uses ½ in. threaded rod (order separately)
- For use with up to 24 in. wide tray
- Load capacity : 700 lb per kit



	Cat. no.	Material	Channel width (in.)	Tray width (in.)
	SHW18CSB	Hot-dipped galvanized	18	6
		Hot-dipped galvanized	18	9
	SHW30CSB	Hot-dipped galvanized	30	12
		Hot-dipped galvanized	30	18
		Hot-dipped galvanized	30	24

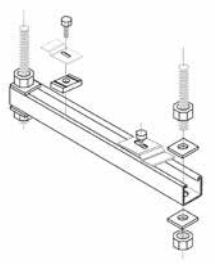
Common accessories

Cable tray support systems

This system is designed to support various cable tray widths in a suspending installation.

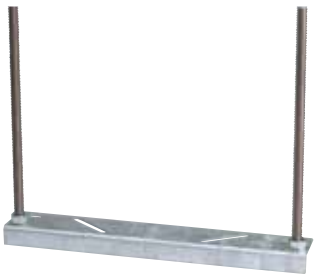
- Kit consists of: one piece of strut cut to length, four ⅜ in. strut nuts, two hold-down clips, four ½ in. hex nuts, two ⅜ in. x ⅞ in. hex head cap screws, four ½ in. square washers
- Uses ½ in. threaded rod (order separately)

Trapeze kit



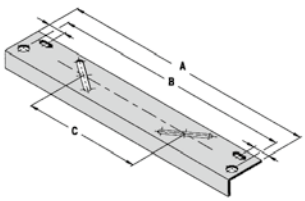
Cat. no.	Channel width (in.)	Tray width (in.)
(*)-06-TPK	16⅞	6
(*)-09-TPK	18¾	9
(*)-12-TPK	22½	12
(*)-18-TPK	28⅛	18
(*)-24-TPK	35⅝	24
(*)-30-TPK	41¼	30
(*)-36-TPK	46⅞	36
(*)-42-TPK	52½	42

(*) Insert SHW for hot-dipped galvanized. SSW for stainless steel 316 or SPW for pregalvanized.



- Hanging rods not included
- Standard finish: hot-dipped galvanized

Cross member



Cat. no.	A (in.)	B (in.)	C (in.)
S202-6HDG	6	5	–
S202-9HDG	9	8	2
S202-15HDG	5	14	8
S202-21HDG	21	20	14
S202-27HDG	27	26	20
S202-33HDG	33	32	26

* Order hold-down clips separately, cat no. SSW-HEC.

Common accessories

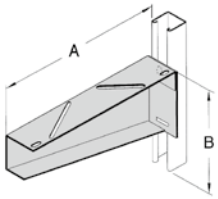
Cable tray support systems

- Swivel tray clamp for aluminum and steel trays with regular or reinforced flanges
- Serrations and biting teeth on clamping saddle provide a high-quality bond between conduit and clamp
- ½ to 4 inch can be clamped to any position in a 90° arc
- Material: malleable iron hub and steel U-bolt
- Standard finish: zinc-plated

Conduit-to-cable-tray swivel clamp

Cat. no.	Conduit size (in.)
6209	½–¾
6211	1–1¼
6214	1½–2
6216	2½–3
6218	3½–4

Cantilever support

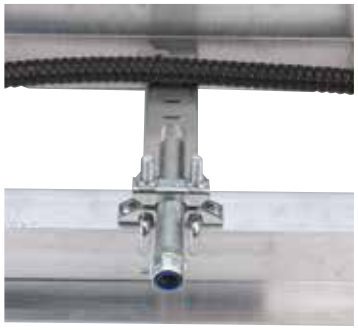


Cat. no.	A (in.)	B (in.)	Design load/lb
S203-8HDG	8½	4¹⁄₁₆	180
S203-14HDG	14½	5⅜	325
S203-20HDG	20½	6¹¹⁄₁₆	525
S203-26HDG	26½	8	675
S203-32HDG	32½	8	840
S203-38HDG	38½	8	1,050

* Order hold-down clips separately, cat no. SSW-HEC. Standard finish: hot-dipped galvanized.

Conduit-to-cable-tray clamp

- Material: steel
- Standard finish: electrogalvanized



Cat. no.	Conduit size (in.)
6210	½–¾
6212	1–1¼

Grounding and bonding

Grounding and bonding products

Cat. no. 10109

- Material: malleable iron
- Standard finish: zinc plated
- For use with aluminum and steel cable tray

Cable tray ground clamp

	Cat. no.	Cable	Description
Cat. no. 10105 	10105	Copper or aluminum	Cable for single conductors #4 solid to 2/0 str.
	10109	Copper or aluminum	Cable for single conductors 2/0 solid to 4/0 str.

- Bolt has square shank to prevent turning and allow clamp to be tightened with one wrench
- Material: copper alloy
- Standard finish: tin-plated for aluminum cable tray
- Castings are of high-strength, corrosion-resistant copper alloy

Blackburn® ground clamp

			Conductor range (AWG)		
		Cat. no.	Min.	Max.	Figure
Figure 1 	Figure 2 	GTC13P	#4 sol.	2/0 str.	1
		GTC14P	2/0 str.	250 kcmil	1
		GTC23P	#4 sol.	2/0 str.	2
		GTC24P	2/0 str.	250 kcmil	2

Grounding and bonding

Grounding and bonding products

- Material: tin-plated high strength 6061-T6 aluminum alloy
- These grounding connectors are dual rated for aluminum and copper conductors
- The open face design allows the installer to quickly lay in the grounding conductor as a jumper

Blackburn lay-in lug

	Conductor range (AWG)		Stud size	
Cat. no.	Min.	Max.	(in.)	(mm^2)
LL306	#6 solid	3/0 str.	0.33	8.38
LL2506	#6 str.	250 kcmil	0.33	8.38

- Custom braids are available
- Material: copper
- Standard finish: tin-plated

Bonding jumpers

Cat. no.	Bonding amp capacity (A)	Single bolt hole (in.)	Description
FBD12-1*	600	7/16	12 in. flat flexible braid
FBD16-1*	600	7/16	16 in. flat flexible braid
FBD18-1*	600	7/16	18 in. flat flexible braid
FBD24-1*	600	7/16	24 in. flat flexible braid
FBD30-1*	600	7/16	30 in. flat flexible braid
FBD36-1*	600	7/16	36 in. flat flexible braid
FBE12-1*	1200	9/16	12 in. flat flexible braid
FBE16-1*	1200	9/16	16 in. flat flexible braid
FBE18-1*	1200	9/16	18 in. flat flexible braid
FBE24-1*	1200	9/16	24 in. flat flexible braid
FBE30-1*	1200	9/16	30 in. flat flexible braid
FBE36-1*	1200	9/16	36 in. flat flexible braid
FBG12-1*	2000	9/16	12 in. flat flexible braid
FBG16-1*	2000	9/16	16 in. flat flexible braid
FBG18-1*	2000	9/16	18 in. flat flexible braid
FBG24-1*	2000	9/16	24 in. flat flexible braid
FBG30-1*	2000	9/16	30 in. flat flexible braid
FBG36-1*	2000	9/16	36 in. flat flexible braid

* CSA Certified and UL Listed for grounding and bonding equipment.

Grounding and bonding

Grounding and bonding products

Blackburn cable tray ground clamp

Cat. no.	Cable	Description
CTG250	Al or Cu	For parallel or tapping applications, #2 solid to 250 kcmil

Table 1 (NEC Table 392.7 (B))

Metal area requirements for cable trays used as equipment grounding conductors

Maximum fuse ampere rating, circuit breaker ampere trip setting, or circuit breaker protective relay ampere trip setting for ground fault protection of any cable circuit in the cable tray system	Minimum cross-sectional area of metal* in square inches	
	Steel cable trays	Aluminum cable trays
60	0.20	0.20
100	0.40	0.20
200	0.70	0.20
400	1.00	0.40
600	1.50**	0.40
1000	–	0.60
1200	–	1.00
1600	–	1.50
2000	–	2.00**

For SI units: one square inch = 645 square millimeters.
* Total cross-sectional area of both side rails for ladder or trough-type cable trays: or the minimum cross-sectional area of metal in channel-type cable trays or cable trays of one-piece construction.
** Steel cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 600 A. Aluminum cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 2000 A. For larger ampere ratings, an additional grounding conductor must be used.

For more information on grounding and bonding cable tray, refer to NEMA VE 2 cable tray installation guidelines.

Table 2 (Based on NEC Table 250-95 and CEC Table 16)

Minimum size equipment grounding Conductors for grounding and bonding raceway and equipment

Rating or setting of automatic overcurrent device in circuit ahead of equipment, conduit, etc. Not exceeding (amperes)	Size (AWG)	
	Copper wire no.	Aluminum or copper-clad aluminum wire no.*
15	14	12
20	12	10
30	10	8
40	10	8
60	10	8
100	8	6
200	6	4
300	4	2
400	3	1
500	2	1/0
600	1	2/0
800	1/0	3/0
1000	2/0	4/0
1200	3/0	250 kcmil
1600	4/0	350 kcmil
2000	250 kcmil	400 kcmil
2500	350 kcmil	600 kcmil
3000	400 kcmil	600 kcmil
4000	500 kcmil	800 kcmil
5000	700 kcmil	1,200 kcmil

* See installation restrictions in NEC Section 250-92(a).

Superstrut® support systems
1⅝ in. x 1⅝ in. channel and hardware

Superstrut 1⅝ in. x 1⅝ in. 12 gauge channel type A

Cat. no.	Description
A1200	Solid base
A1200-P	Punched
A1200-HS	Half slots
A1200-S	Long slots
A1200-KO	Knockouts
A1202	Back to back

Example: A1200HS10ALC, A120020HDGC

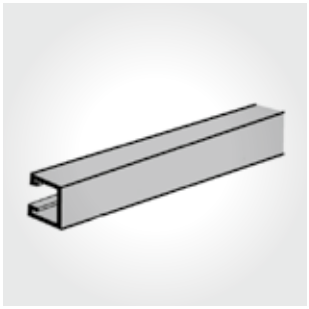
Finishes and materials	
No suffix	Gold galvanized dichromate finish
PGC	Pregalvanized
HDGC	Hot-dipped galvanized
T316L	Stainless steel type 316
ALC	Aluminum
EG	Electrogalvanized

Superstrut 1⅝ in. x 1⅝ in. 12 gauge channel type A

Offered in 10 or 20 ft. lengths.
Aluminum, hot-dipped galvanized or stainless steel channels are recommended to support aluminum, steel or stainless steel cable tray.

01 Solid base
02 Knockouts
03 Long slots
04 Half slots
05 Punched
Back to back

01



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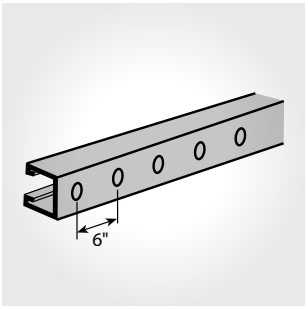

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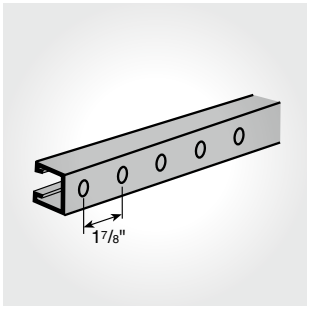

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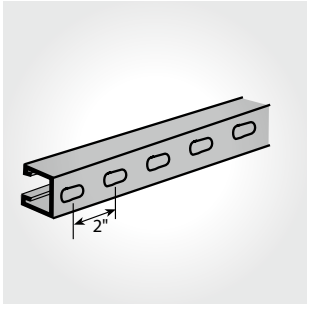

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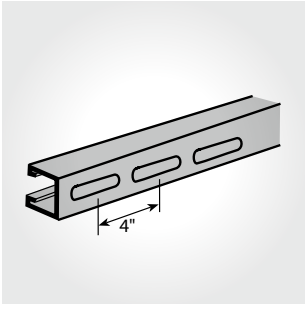

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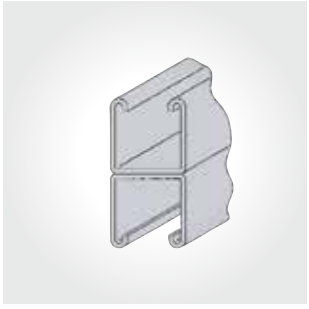
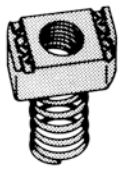
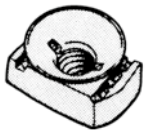


Superstrut support systems

Hardware

Channel nuts

	Cat. no.	Size (in.)	
A100 Regular spring nut 	A100-1/4EGC	¼	Standard finish: electrogalvanized. Stainless steel channel nuts are recommended for aluminum channel and cable tray rungs. Change suffix to SS6(C).
	A100-5/16EGC	5/16	
	A100-3/8EGC	⅜	
	A100-1/2EGC	½	
	A100-5/8EGC	⅝	
	A100-3/4	¾	
	A100-7/8EGC	⅞	
Nut is square over ½ in. size			
AC100 springless nut 	AC100-1/4EGC	¼	Standard finish: electrogalvanized. Stainless steel channel nuts are recommended for aluminum channel and cable tray rungs. Change suffix to SS6(C).
	AC100-3/8EGC	⅜	
	AC100-1/2EGC	½	
	AC100-5/8	⅝	
	AC100-3/4	¾	
Nut is square over ½ in. size			
UC100 Universal nylon cone nut 	UC100-1/4	¼	Not available in stainless steel.
	UC100-3/8	⅜	
	UC100-1/2	½	

For all 1⅝ in. and 1½ in. channels; May be used with ALL strut depths.

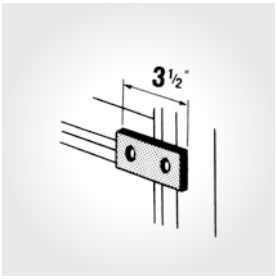
Hex head cap screw

	Cat. no.	Size (in.)	
	E142-1/4x100EG	¼ x 1	Standard finish: electrogalvanized. Available in stainless steel. Change suffix to SS6(C).
	E142-1/4x150EG	¼ x 1½	
	E142-3/8x100EG	⅜ x 1	
	E142-3/8x150EG	⅜ x 1½	
	E142-1/2x100EG	½ x 1	
	E142-1/2x150EG	½ x 1½	

Superstrut support systems

Superstrut fittings and brackets

01



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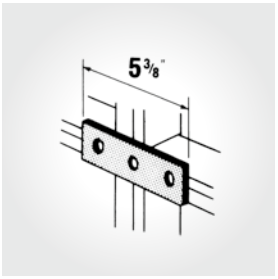

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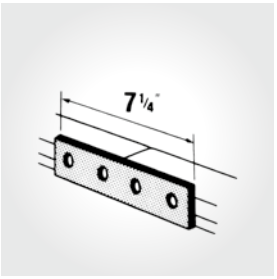

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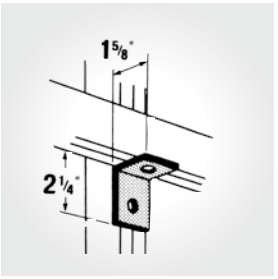

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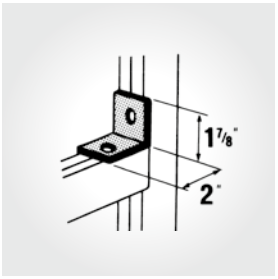

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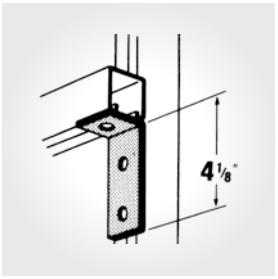

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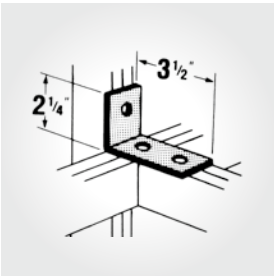

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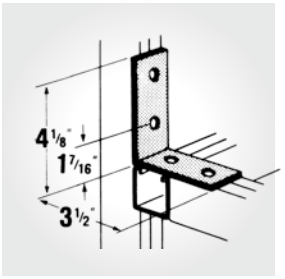

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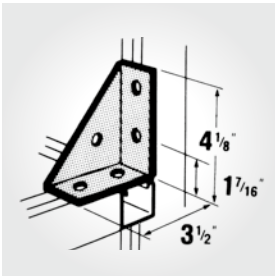

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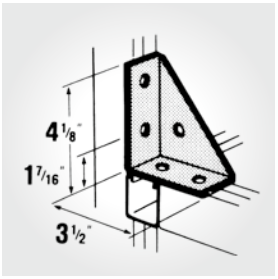

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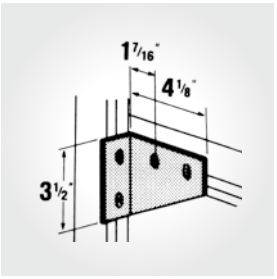

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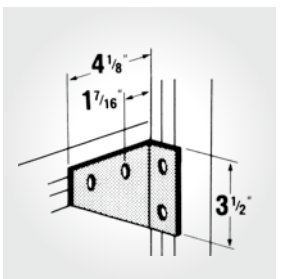

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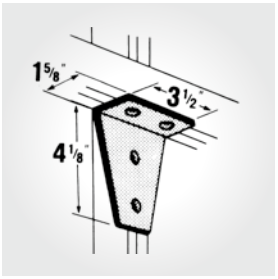

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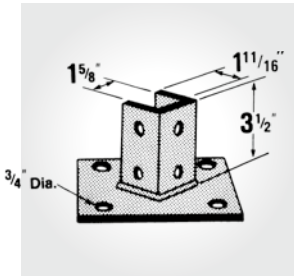

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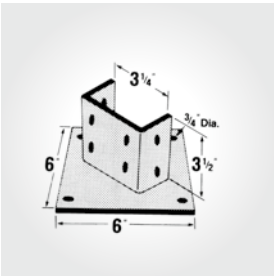


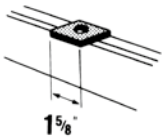
01 AB206HDGC
02 AB207HDGC
03 X207HDGC
04 AB201HDGC
05 AB202HDGC
06 AB203HDGC
07 AB204HDGC
08 AB205HDGC
09 AB213HDGC
10 AB214HDGC
11 AB254-LHDGC
12 AB254-RHDGC
13 X289HDGC
14 AP232HDG
15 AP235HDGC

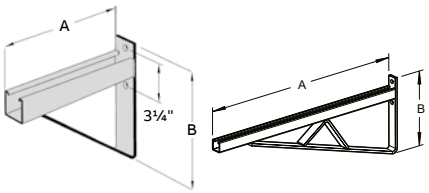
NOTE: Hot-dipped galvanized HDG(C) or stainless steel SS6(C) fittings are recommended to assemble aluminum channel. Also available in electrogalvanized (EG) and gold galvanized dichromate (no suffix). Std. dimensions: Hole spacing 13/16 in. from end, hole spacing 1 7/8 in. centers, hole size 9/16 in. dia., fitting width 1 5/8 in.

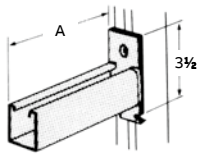
Superstrut support systems

Superstrut fittings and brackets

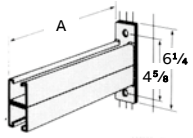
Superstrut fittings and brackets

	Cat. no.	Hole size (in.)
	AB241-1/4HDGC	¼
	AB241-3/8HDGC	⅜
	AB241-1/2HDGC	½
	AB241-3/4HDGC	¾

	Cat. no.	A (in.)	B (in.)	Design load (lb)
	S249-8HDG	8½	8	1,600
	S249-14HDG	14½	9	1,325
	S249-20HDG	20½	9	1,000
	S249-26HDG	26½	11½	850
	S249-32HDG	32½	11½	750
	S249-38HDG	38½	11½	600

	Cat. no.	A (in.)	Design load (lb)
	S256-8HDG	8½	1,000
	S256-14HDG	14½	500
	S256-20HDG	20½	300
	S256-26HDG	26½	250

When installed in inverted position, reduce load rating 40%. Strut section made from half-slot channel.

	Cat. no.	A (in.)	Design load (lb)
	S251-14HDGC	14½	1,650
	S251-20HDGC	20½	1,050
	S251-26HDGC	26½	800
	S251-32HDGC	32½	650
	S251-38HDGC	38½	500

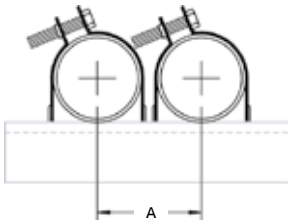
Hot-dipped galvanized HDG(C) or stainless steel SS6(C) fittings are recommended to assemble aluminum channel.
Also available in electrogalvanized (EG) and gold galvanized dichromate (no suffix). Std. dimensions: Hole spacing 13/16 in. from end, hole spacing 1⅞ in. centers, hole size 9/16 in. dia., fitting width 1⅝ in.

Superstrut support systems

Quick Clamp II (TBQC)

- True one-piece construction – Arrives ready to install
- NO breaking apart – Half the installation time of break apart clamps
- Integral bolt and captive nut – No separate pieces to lose
- One size fits EMT and rigid conduit – Takes the guesswork out of clamp selection
- Pipe size and catalogue number stamped right on clamp
- Attaches a complete range of EMT and rigid conduit (½ in. to 4 in.) to strut channels
- Multi-driver combo bolt head – Accepts a wrench, most screwdrivers or ½ in. nut driver
- Field-adjustable angle (±4°) – Easy installation even when strut is not square
- Embossed J-hooks increase loading capabilities
- ABB flex window provides wrapping action around pipes
- Easy reconfiguration without complete disassembly – Easily accessible angled bolt allows for field adjustments and closer conduit spacing
- Electrogalvanized finish – Additional corrosion resistance

Ordering information

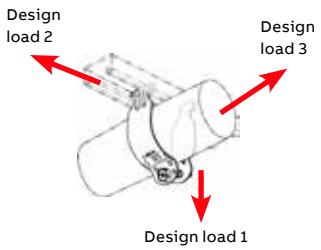


Cat. no.	EMT Dimension A in. (mm)	Rigid conduit dimension A in. (mm)
TBQC050	½ (12.7)	½ (12.7)
TBQC075	¾ (19.05)	¾ (19.05)
TBQC100	1 (44.5)	1 (44.5)
TBQC125	1 ¼ (31.75)	1 ¼ (31.75)
TBQC150	1 ½ (38.1)	1 ½ (38.1)
TBQC200	2 (50.8)	2 (50.8)
TBQC250	2 ½ (63.5)	2 ½ (63.5)
TBQC300	3 (76.2)	3 (76.2)
TBQC350	3 ½ (88.9)	3 ½ (88.9)
TBQC400	4 (101.6)	4 (101.6)

Superstrut support systems

Quick Clamp II (TBQC)

Loading data

	Cat. no.	Design load 1 static load limit lb (kg)	Design load 2 lb (kg)	Design load 3 lb (kg)
	TBQC050	200 (90)	50 (23)	50 (23)
	TBQC075	200 (90)	50 (23)	50 (23)
	TBQC100	200 (90)	50 (23)	50 (23)
	TBQC125	200 (90)	50 (23)	50 (23)
	TBQC150	200 (90)	50 (23)	50 (23)
	TBQC200	200 (90)	50 (23)	50 (23)
	TBQC250	350 (158)	50 (23)	50 (23)
	TBQC300	350 (158)	50 (23)	50 (23)
	TBQC350	350 (158)	50 (23)	50 (23)
	TBQC400	350 (158)	50 (23)	50 (23)

Design load 1 has a safety factor of 4. Design loads 2 and 3 have a safety factor of 1.

Superstrut support systems
Cobra® cable and pipe clamp (CPC)

Clear markings on each clamp identify the catalogue number, min./max. outer cable diameters, EMT/rigid trade sizes, CSA and UL stamps. One size clamp works on equal trade sizes for both EMT and rigid conduit.

- Works with all depths of strut – 13⁄16 in. to 3¼ in.
- Two hooks on the same side – Make the clamp easy to install and keep conduits and cable square with strut
- Rugged stirrup and wide saddle design – Holds securely with no damage to conduit or cable
- Suggested design load is 200 lb (½ in. to 2 in.); 350 lb (2½ in. to 4 in.); safety factor 4:1 (safety factor = ratio of ultimate load to the design load)
- Heavy-duty 5⁄16 in. hex bolt – With multi-driver head (Robertson square, Phillips cross-recess and slot) provides full range of installation options – Virtually any tool will work
- Bright zinc finish clamps are electogalvanized after fabrication for additional durability

Superstrut support systems

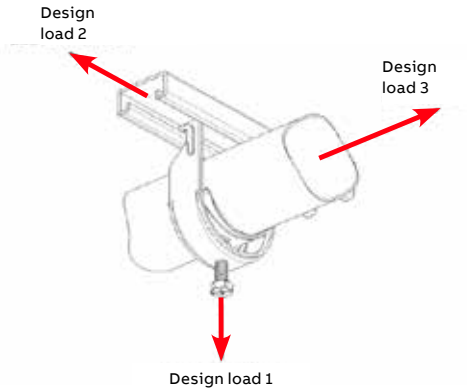
Cobra cable and pipe clamp (CPC)

Ordering information

Steel cat. no.	Aluminum cat. no.	Stainless steel 316L cat. no.	EMT Trade size in. (mm)	Rigid cond. trade size in. (mm)	Cable O.D. range (in.)	Static load limit (lb) safety factor = 4	Qty. per box	Wt./C lb	Torque value (ft.-lb)
CPC025	CPC025AL	CPC025SS6	¼ (6.4)	¼ (6.4)	0.312–0.600	200	100	8	35
CPC050	CPC050AL	CPC050SS6	½ (12.7)	½ (12.7)	0.500–0.890	200	100	10	35
CPC075	CPC075AL	CPC075SS6	¾ (19.1)	¾ (19.1)	0.860–1.110	200	100	12	35
CPC100	CPC100AL	CPC100SS6	1 (25.4)	1 (25.4)	1.100–1.400	200	100	14	35
CPC125	CPC125AL	CPC125SS6	1¼ (31.8)	1¼ (31.8)	1.400–1.725	200	50	16	35
CPC150	CPC150AL	CPC150SS6	1½ (38.1)	1½ (38.1)	1.690–1.980	200	50	18	35
CPC200	CPC200AL	CPC200SS6	2 (50.8)	2 (50.8)	1.980–2.576	200	50	24	35
CPC250	CPC250AL	CPC250SS6	2½ (63.5)	2½ (63.5)	2.576–3.060	350	25	36	35
CPC300	CPC300AL	CPC300SS6	3 (76.2)	3 (76.2)	3.060–3.626	350	25	42	35
CPC350	CPC350AL	CPC350SS6	3½ (88.9)	3½ (88.9)	3.626–4.126	350	25	46	35
CPC400	CPC400AL	CPC400SS6	4 (101.6)	4 (101.6)	4.126–4.626	350	25	50	35

Standard material is commercial-grade, bright electrogalvanized steel. Stainless steel 316L is also available; add the suffix "SS6" to catalogue no. (i.e.: CPC050SS6).
Stainless steel bolt head is hexagonal and slotted only.

Loading data



Design load 1 Static load limit lb (kg)	Design load 2 lb (kg)	Design load 3 lb (kg)
200 (91)	50 (23)	50 (23)
200 (91)	50 (23)	50 (23)
200 (91)	50 (23)	50 (23)
200 (91)	50 (23)	50 (23)
200 (91)	50 (23)	50 (23)
200 (91)	50 (23)	50 (23)
350 (159)	50 (23)	50 (23)
350 (159)	50 (23)	50 (23)
350 (159)	50 (23)	50 (23)
350 (159)	50 (23)	50 (23)

Superstrut support systems

Loc-King Cobra™ cable and pipe clamp (LKCPC)

Superior design load capabilities for industrial applications:
350 lb for ½ in. to 2 in. trade sizes; 450 lb for 2½ in. to 4 in. trade sizes.

Durable one-piece, heavy-duty steel construction – Designed specifically for use in industrial applications.

- Embosses on shoulder and hooks increase loading capability and durability, preventing deformation of clamps
- Rugged stirrup provides increased strength for heavier loads, minimizing deflection
- Wider saddle design with anti-rotation tabs distributes load evenly over a larger surface area, preventing jacket damage
- Increased corrosion protection – GoldGalv® (yellow zinc dichromate) finish stands up to harsh industrial applications, compared to conventional electrogalvanization
- Parallel hook design keeps conduit and cable square with strut
- Heavy-duty 5/16 in. hex bolt
- One size clamp works on equal trade sizes for both EMT and rigid conduit, simplifying clamp specification

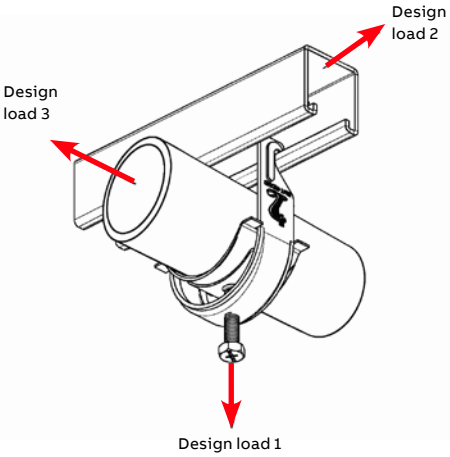
Superstrut support systems

Loc-King Cobra cable and pipe clamp (LKCPC)

Ordering information

Cat. no.	EMT trade size in. (mm)	Rigid cond. trade size in. (mm)	Cable O.D. range (in.)	Static load limit (lb) safety factor = 4	Qty. per box	Wt./C lb	Torque value (ft.-lb)
LKCPC050	½ (12.7)	½ (12.7)	0.650–0.890	100	15	10	35
LKCPC075	¾ (19.1)	¾ (19.1)	0.860–1.110	100	16	12	35
LKCPC100	1 (25.4)	1 (25.4)	1.100–1.400	50	19	14	35
LKCPC125	1¼ (31.8)	1¼ (31.8)	1.400–1.725	50	23	16	35
LKCPC150	1½ (38.1)	1½ (38.1)	1.690–1.980	50	27	18	35
LKCPC200	2 (50.8)	2 (50.8)	1.980–2.576	50	38	24	35
LKCPC250	2½ (63.5)	2½ (63.5)	2.576–3.060	25	44	36	35
LKCPC300	3 (76.2)	3 (76.2)	3.060–3.626	25	53	42	35
LKCPC350	3½ (88.9)	3½ (88.9)	3.626–4.126	25	58	46	35
LKCPC400	4 (101.6)	4 (101.6)	4.126–4.626	25	66	50	35

Loading data

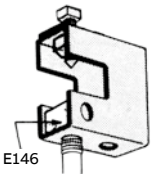


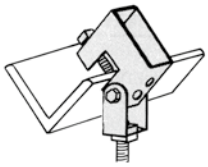
Design load 1 static load limit lb (kg)	Design load 2 lb (kg)	Design load 3 lb (kg)
350 (159)	50 (23)	50 (23)
350 (159)	50 (23)	50 (23)
350 (159)	50 (23)	50 (23)
350 (159)	50 (23)	50 (23)
350 (159)	50 (23)	50 (23)
350 (159)	50 (23)	50 (23)
350 (159)	50 (23)	50 (23)
450 (204)	50 (23)	50 (23)
450 (204)	50 (23)	50 (23)
450 (204)	50 (23)	50 (23)

Superstrut support systems clamps and hardware

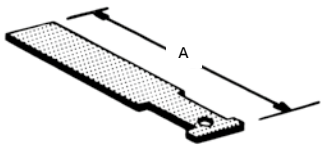
Beam clamps and hanger rods

Beam clamps and hanger rods

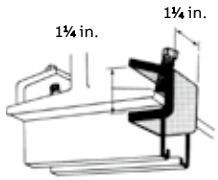
	Cat. no.	Rod size (in.)	Design load load/lb
	U562HDG	½	800
	UM562HDGC	½	1200

	Cat. no.	Rod size (in.)	Design load load/lb
	US562HDGC	½	800

½ in. set screw included.

	Cat. no.	Beam flange width (in.)	A (in.)
	U568-3EG	6	9
	U568-4EG	9	12
	U568-5EG	12	15

16 ga. material.

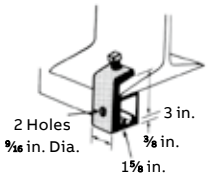
	Cat. no.	Design load load/lb
	U514HDGC	750

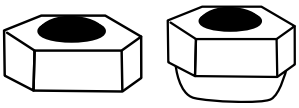
⅜ in. x 1½ in. set screw included.

Superstrut support systems clamps and hardware

Beam clamps and hanger rods

Beam clamps and hanger rods

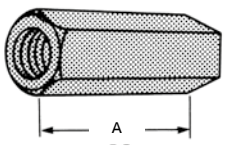
	Cat. no.	Design load load/lb
	U515HDGC	800

	Cat. no.	Size (in.)
	ES145-3/8EG	3/8
	ES145-1/2EG	1/2

	Cat. no.	Size (in.)
	E146-1/4EG	1/4
	E146-5/16EG	5/16
	E146-3/8EG	3/8
	E146-1/2EG	1/2
	E146-5/8EG	5/8

	Cat. no.	Size (in.)	Threads per inch	Design load lb
	National coarse thread			
	H104-1/4x10EGC	1/4	20	150
	H104-3/8x10EGC	3/8	16	610
	H104-1/2x10EGC	1/2	13	1130
	H104-5/8x10EGC	5/8	11	1810
	H104-3/4x10EGC	3/4	10	2710
	H104-7/8x10EGC	7/8	9	3770

Also available in stainless steel (304 and 316) in length of 6 ft. Standard length 10 ft.

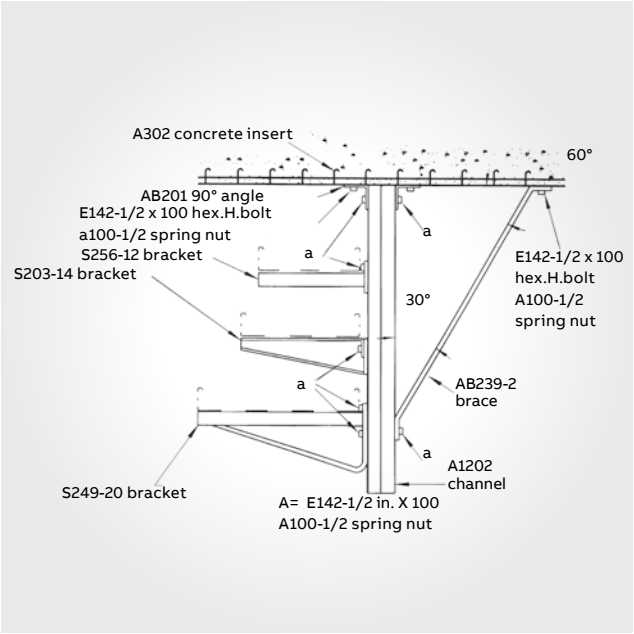
	Rod size (in.)	A (in.)
	1/4	7/8
	5/16	7/8
	3/8	1 1/8
	1/2	1 1/4
	5/8	2 1/8
	3/4	2 1/4
	7/8	2 1/2
	1	2 1/4

Order by product number, rod size and finish. Example: H119-1/2EGC. Finish and materials: GoldGalv dichromate (no suffix), electrogalvanized (EG), hot-dipped galvanized (HDGC), stainless steel type 316 (SS6C).

Superstrut® support systems

Design applications/mechanical support

01



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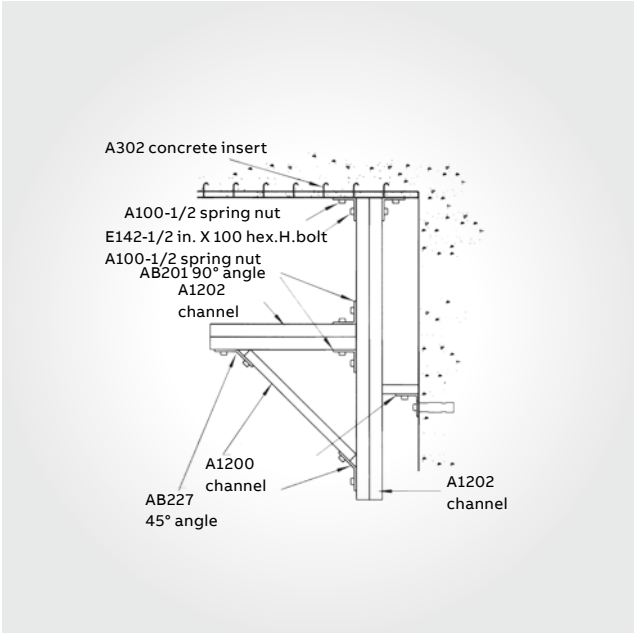

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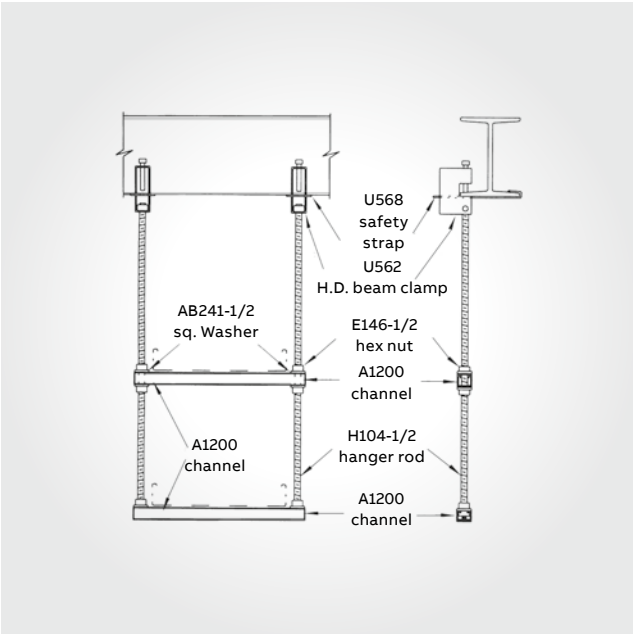

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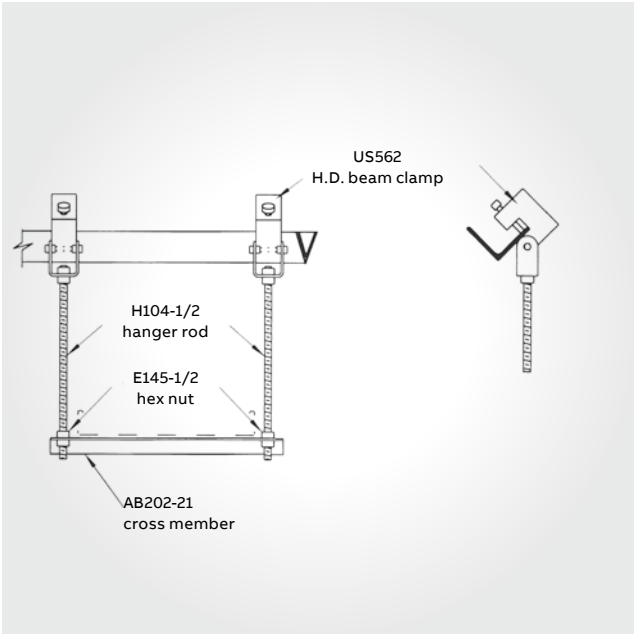


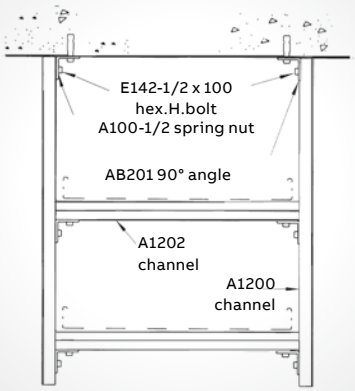
01 **Example 1**
Suspended column, carrying brackets, braced to the ceiling.

02 **Example 2**
Suspended column, holding bracket and console braced to wall.

03 **Example 3**
Trapeze, ABB channels are used as cross members.

04 **Example 4**
Sketch depicts the use of beam clamps on slanted beams.

—
05



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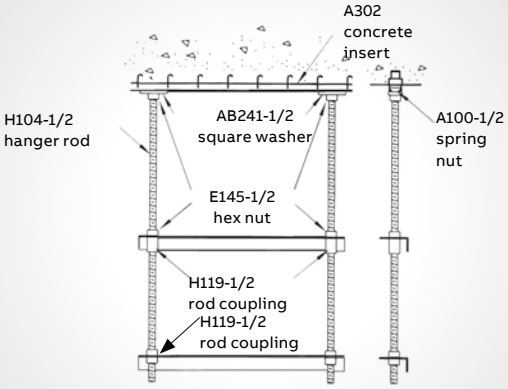

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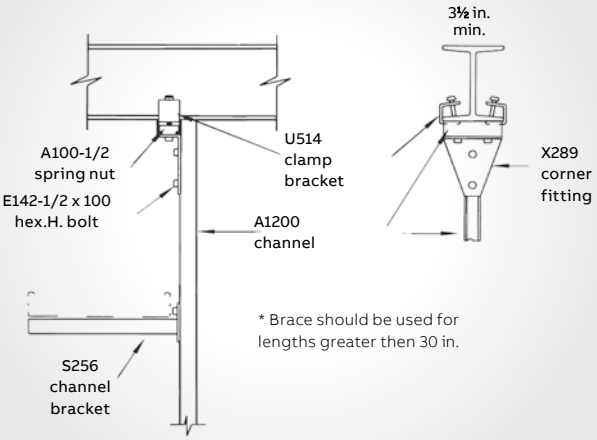

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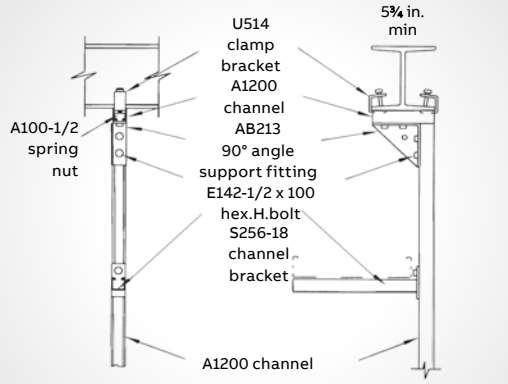

—
05 **Example 5**
Trapeze, constructed from ABB channels, fittings. The use of spot inserts is shown.

—
06 **Example 6**
Trapeze, using ABB hanger rods, cross members.

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07 **Example 7**
Single-sided bracket application.

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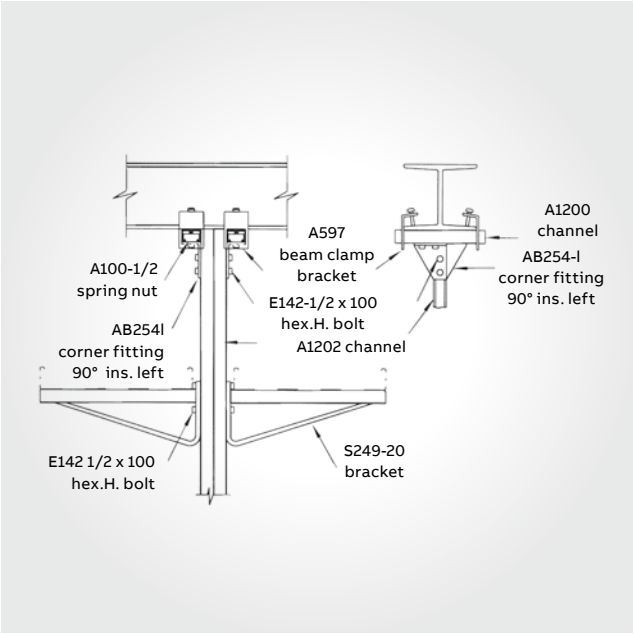
08 **Example 8**
Single-sided bracket application.

Superstrut support systems

Design applications/mechanical support



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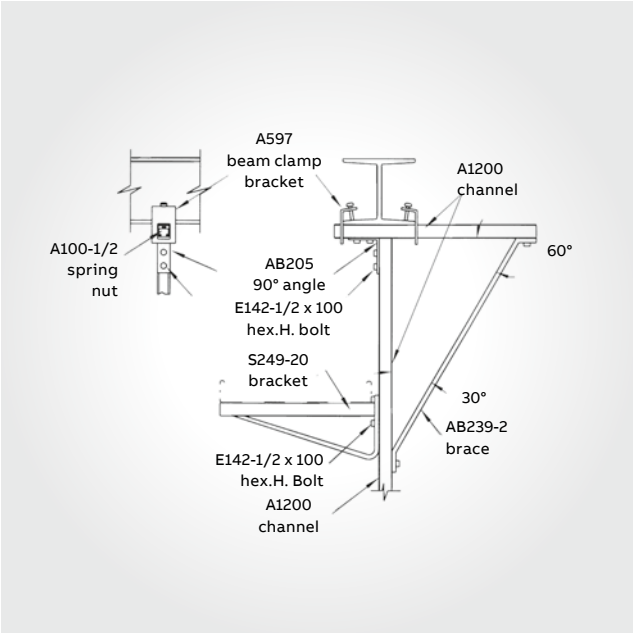

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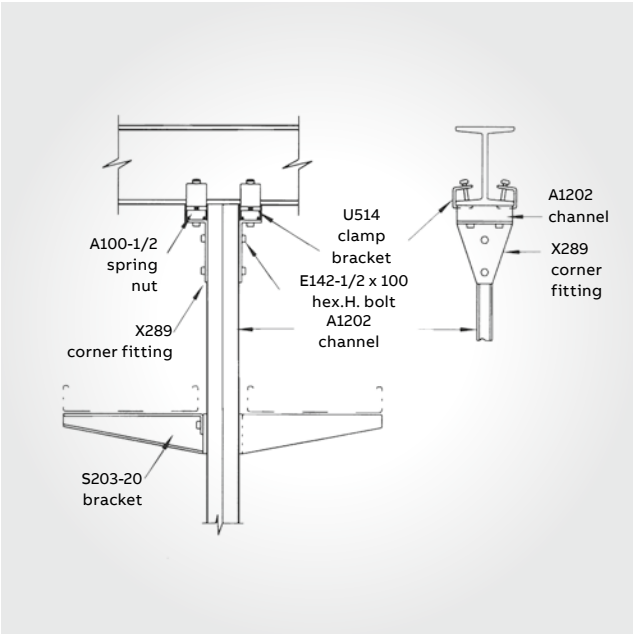

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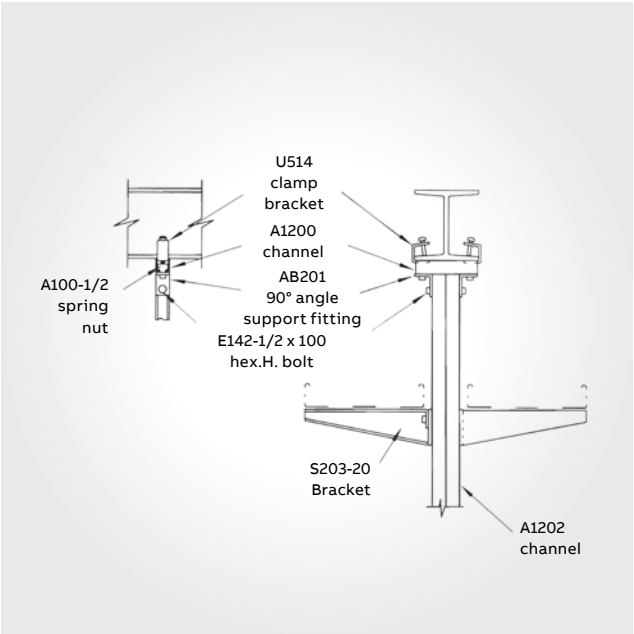


04

01 **Example 9**
Two-sided heavy-duty application.

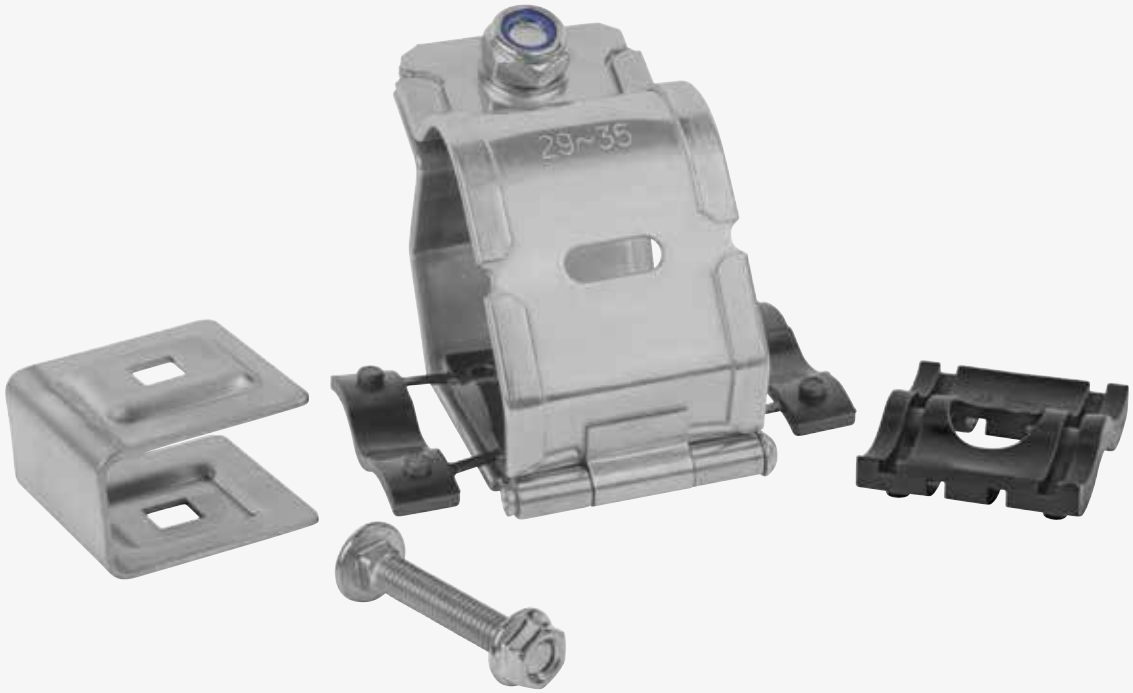
02 **Example 10**
Heavy-duty bracket application.

03 **Example 11**
Brackets parallel to beam.

04 **Example 12**
Brackets perpendicular to beam.


EMT/RIGID
3/4"
EMT/RIGID
3/4"

Short circuit protection
Cable cleats solutions



—
01 Before short circuit test
—
02 After short circuit test

—
01

—
02

Short circuit protection
Cable cleats solutions

Designed specifically to fit aluminum and steel T&B Cable Tray rungs, new stainless steel 316 cable cleats from ABB retain and support cables within the cable tray. In the event of a short circuit, they also help prevent damage to cables, cable tray and surrounding equipment and reduce the potential for personal injury.

Cable cleats can be used with T&B Cable Tray up to 36" (91 cm) in width. Cleats fit either ladder-style or ventilated tray. Adapter kits are sold separately for non-metallic square-rung tray and AH18 series aluminum tray. Please note that these cable cleats are not rated for use with solid bottom, one-piece, channel, wire basket, non-metallic strut-rung or non-metallic marine tray.

Features
- Available for both single and trefoil cable configurations in an array of range-taking sizes
- Cable cleats stainless steel 316 construction for high resistance to corrosion, weathering, abrasion and extreme temperatures
- Suitable for use in operating temperatures from -60 °C to 120 °C (-76 °F to 248 °F)
- Compact design occupies minimal space on cable tray rungs

Standards/certifications
- IEC 61914:2015

Classification
- Material: Stainless steel 316L
- Temperature range: -60 °C to 120 °C
- Resistance to impact: Very heavy
- Resistance to electromechanical forces: 170 kA peak, 0.33 m spacing, withstanding more than one short circuit
- Resistance to ultraviolet light: No cracks or damage
- Resistance to corrosion: High

Technical specifications
- Frame: 55 mm x 1.5 mm marine-grade, non-magnetic 316L stainless steel
- Closure hardware: Captive 316 stainless steel M10 bolt and nylon locknut
- Integral pad: Low-smoke, low-fume, halogen-free
- Tools required to install: Wrench
- Mounting hardware: Supplied with 316 stainless steel cable tray mounting bracket, ⅜" carriage bolt and flange nut

Typical applications
- Oil and gas
- Mining
- Utilities

Cable cleat selection and specification

All power phases in a circuit must be contained within the same cleat. Single cleats are only for use with multi-conductor cable.

Step 1 — Know your cables.
- What type of cable is being used? Single- or multi-conductor?
- What is the outside diameter of your cable(s)?

Step 2 — Know your system.
- What is the available short circuit current — RMS or peak?
- What type of cable tray is installed?

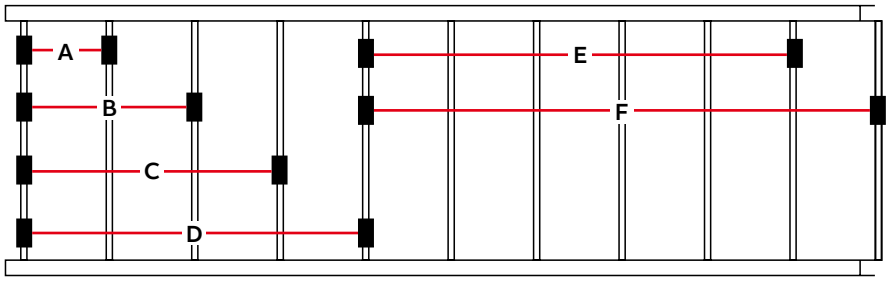
Step 3 — Select your cable cleats.
- ABB cable cleats come with hardware to mount to most standard T&B Cable Tray steel and aluminum ladder trays.
- Adapter kits for use with AH18 series aluminum and non-metallic square-rung cable tray are sold separately.

Step 4 — Determine cleat spacing for installation.
- Find the value equal to or greater than the available short circuit current for your system.

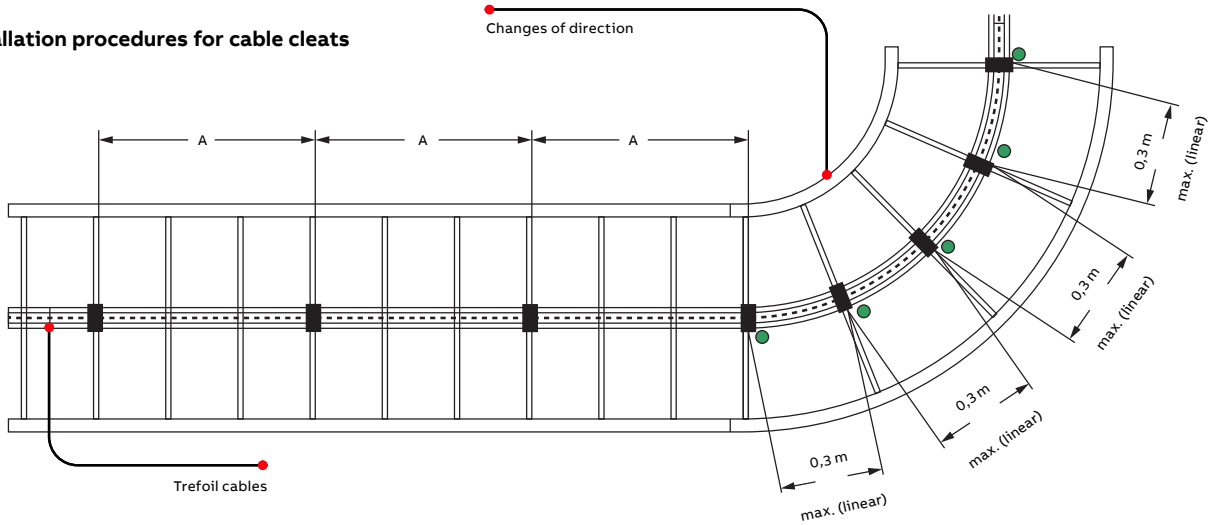
Cable cleat load rating

Short circuit peak current rating (kA) based on tray bottom style and cleat positioning

	Cable cleat positioning					
Tray Bottom Style	(A) On every rung	(B) Skip 1 rung	(C) Skip 2 rungs	(D) Skip 3 rungs	(E) Skip 4 rungs	(F) Skip 5 rungs
V	170	170	145	126	112	102
L06	170	154	126	109	97	89
L09	170	130	106	92	-	-
L12	164	116	95	-	-	-



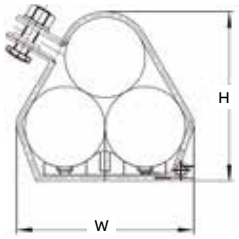
Recommended installation procedures for cable cleats

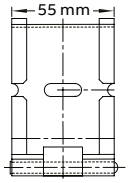


Ordering information

Cable cleats stainless steel 316 — trefoil style

Diagrams



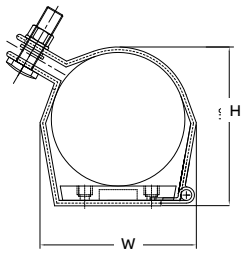


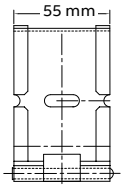
		Cable outer diameter						Cleat dimensions	
		Minimum		Maximum		Height		Width	
	Cat. no.	in.	mm	in.	mm	in.	mm	in.	mm
	ATCC1723	0.67	17	0.91	23	2.15	54.5	2.09	53.2
	ATCC1925	0.75	19	0.98	25	2.30	58.5	2.26	57.4
	ATCC2329	0.91	23	1.14	29	2.58	65.5	2.59	65.8
	ATCC2531	0.98	25	1.22	31	2.70	68.5	2.76	70.0
	ATCC2733	1.06	27	1.30	33	2.85	72.5	2.92	74.2
	ATCC2935	1.14	29	1.38	35	3.01	76.5	3.09	78.4
	ATCC3238	1.26	32	1.50	38	3.25	82.5	3.34	84.8
	ATCC35415	1.38	35	1.63	41.5	3.48	88.5	3.63	92.1
	ATCC38445	1.50	38	1.75	44.5	3.68	93.5	3.87	98.4
	ATCC4248	1.65	42	1.89	48	3.98	101.0	4.16	105.7
	ATCC4551	1.77	45	2.01	51	4.19	106.5	4.41	112.0
	ATCC4753	1.85	47	2.09	53	4.31	109.5	4.59	116.6
	ATCC4955	1.93	49	2.17	55	4.49	114.0	4.74	120.4
	ATCC5157	2.01	51	2.24	57	4.63	117.5	4.91	124.6
	ATCC5359	2.09	53	2.32	59	4.78	121.5	5.07	128.8
	ATCC5561	2.17	55	2.40	61	4.94	125.5	5.24	133.0
	ATCC5763	2.24	57	2.48	63	5.08	129.0	5.40	137.2
	ATCC5965	2.32	59	2.56	65	5.22	132.5	5.57	141.4
	ATCC6167	2.40	61	2.64	67	5.37	136.5	5.73	145.6
	ATCC6369	2.48	63	2.72	69	5.52	140.3	5.90	149.8
	ATCC6571	2.56	65	2.80	71	5.67	144.0	6.06	154.0
	ATCC6773	2.64	67	2.87	73	5.82	147.7	6.23	158.2
	ATCC6975	2.72	69	2.95	75	5.96	151.4	6.39	162.4
	ATCC7177	2.80	71	3.03	77	6.11	155.2	6.56	166.6
	ATCC7379	2.87	73	3.11	79	6.26	158.9	6.72	170.8
	ATCC7581	2.95	75	3.19	81	6.40	162.6	6.89	175.0
	ATCC7783	3.03	77	3.27	83	6.55	166.4	7.06	179.2
	ATCC7985	3.11	79	3.35	85	6.70	170.1	7.22	183.4
	ATCC8187	3.19	81	3.43	87	6.84	173.8	7.39	187.6
	ATCC8389	3.27	83	3.50	89	6.98	177.4	7.55	191.8
	ATCC8692	3.39	86	3.62	92	7.21	183.2	7.80	198.1
	ATCC8896	3.47	88	3.78	96	7.50	190.6	8.07	205.0
	ATCC9199	3.58	91	3.90	99	7.72	196.2	8.38	212.8
	ATCC96103	3.78	96	4.06	103	8.02	203.7	8.71	221.2
	ATCC99107	3.90	99	4.21	107	8.32	211.2	9.04	229.6
	ATCC103111	4.06	103	4.37	111	8.61	218.6	9.37	238.0
	ATCC107115	4.21	107	4.53	115	8.90	226.1	9.70	246.4
	ATCC111119	4.37	111	4.69	119	9.20	233.6	10.03	254.8
	ATCC115123	4.53	115	4.84	123	9.49	241.0	10.36	263.1
	ATCC119129	4.69	119	5.08	129	9.93	252.2	10.85	275.7

Ordering information

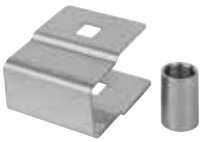
Cable cleats stainless steel 316 — single cable style (only for use with multi-conductor cable)

		Cable outer diameter						Cleat dimensions	
		Minimum		Maximum		Height		Width	
	Cat. no.	in.	mm	in.	mm	in.	mm	in.	mm
Diagrams	ASCC2832	1.10	28	1.26	32	1.81	46.0	1.84	46.7
	ASCC3034	1.18	30	1.34	34	1.89	48.0	1.87	47.4
	ASCC3236	1.26	32	1.42	36	1.97	50.0	1.87	47.4
	ASCC3438	1.34	34	1.50	38	2.05	52.0	1.95	49.5
	ASCC3640	1.42	36	1.58	40	2.13	54.0	2.03	51.5
	ASCC3842	1.50	38	1.65	42	2.21	56.0	2.11	53.6
	ASCC4044	1.58	40	1.73	44	2.28	58.0	2.30	58.4
	ASCC4246	1.65	42	1.81	46	2.36	60.0	2.33	59.1
	ASCC4448	1.73	44	1.89	48	2.45	62.1	2.35	59.8
	ASCC4650	1.81	46	1.97	50	2.52	64.0	2.44	61.9
	ASCC4852	1.89	48	2.05	52	2.60	66.0	2.52	63.9
	ASCC5054	1.97	50	2.13	54	2.68	68.0	2.60	66.0
	ASCC5256	2.05	52	2.21	56	2.70	68.5	2.68	68.0
	ASCC5458	2.13	54	2.28	58	2.84	72.0	2.76	70.1
	ASCC5660	2.21	56	2.36	60	2.91	74.0	2.84	72.1
	ASCC5862	2.28	58	2.44	62	2.99	76.0	2.92	74.2
	ASCC6064	2.36	60	2.52	64	3.07	78.0	3.00	76.3
	ASCC6266	2.44	62	2.60	66	3.15	80.0	3.09	78.4
	ASCC6468	2.52	64	2.68	68	3.23	82.0	3.17	80.4
	ASCC6670	2.60	66	2.76	70	3.31	84.0	3.25	82.5
	ASCC6872	2.68	68	2.84	72	3.39	86.0	3.33	84.6
	ASCC7074	2.76	70	2.91	74	3.41	86.5	3.41	86.6
	ASCC7276	2.84	72	2.99	76	3.54	90.0	3.49	88.7
	ASCC7478	2.91	74	3.07	78	3.62	92.0	3.57	90.7
	ASCC7680	2.99	76	3.15	80	3.70	94.0	3.63	92.3
	ASCC7882	3.07	78	3.23	82	3.78	96.0	3.74	94.9
	ASCC8084	3.15	80	3.31	84	3.86	98.0	3.82	96.9
	ASCC8286	3.23	82	3.39	86	3.94	100.0	3.90	99.0
	ASCC8488	3.31	84	3.47	88	4.02	102.0	3.98	101.1
	ASCC8690	3.39	86	3.54	90	4.09	104.0	4.06	103.1
	ASCC8892	3.47	88	3.62	92	4.17	106.0	4.14	105.2
	ASCC9094	3.54	90	3.70	94	4.25	108.0	4.22	107.2
	ASCC9296	3.62	92	3.78	96	4.33	110.0	4.30	109.3
	ASCC94106	3.70	94	4.17	106	4.72	120.0	4.71	119.6
	ASCC100112	3.94	100	4.41	112	4.96	126.0	4.95	125.8
	ASCC106118	4.17	106	4.65	118	5.20	132.0	5.20	132.0
	ASCC112124	4.41	112	4.88	124	5.43	138.0	5.44	138.2
	ASCC118130	4.65	118	5.12	130	5.61	142.5	5.69	144.4
	ASCC127139	5.00	127	5.47	139	6.02	153.0	6.05	153.6
	ASCC132144	5.20	132	5.67	144	6.22	158.0	6.25	158.8
	ASCC138150	5.43	138	5.91	150	6.46	164.0	6.50	165.0





Ordering information



Adapter kits

Cat. no.	Description	For use with T&B Cable Tray type
ABBCCBSRT	AH18 Series kit includes: bolt, channel spring nut and square washer	AH18 Series aluminum
ABBCCBSR	Kit for non-metallic cable tray includes: bracket and round spacer	Non-metallic square rung

Replacement Parts

Cat. no.	Description	For use with cable cleat type
ABBCCHDW	M10 bolt and nut	All series