600 A deadbreak separable connectors

600 series deadbreak components

600 Series deadbreak elbows, straight receptacles, junctions, vault stretchers and accessories are used to connect equipment and cable on primary feeder and network circuits. Designs accommodate large conductors and feature bolted connections and deadfront modular construction for maximum reliability, performance and versatility.
De-energized connectors can be quickly and easily connected and disconnected using standard hand tools and equipment in accordance with accepted operating practices. Optional accessories allow visible external separation, bypass, isolation, dead-ending, grounding and testing as well as adding taps, surge arresters and circuit protection.
Hotstick-operable and separable joint systems are shown on pages A22–A28.

Spiking aid

When spiking a medium voltage cable near a separable connector, the Elastimold spiking aid is a specially designed product to reduce outage time and cost. Medium voltage cable is spiked as a means to ensure the circuit is de-energized where there is no sectionalizing device, direct testing means or provision for grounding.

GAD

When available fault currents exceed 10 kA in underground systems, the Elastimold GAD may provide a solution. The Elastimold GAD is rated 25 kA and installs in the rear interface of a 600 series elbow connector (T-body). The GAD is normally covered and insulated with an insulating cap that contains capacitive test and a hotstick operating band. Once the circuit is opened at a disconnecting device, the test point cap is removed with a hotstick, and then using an appropriate capacitive test point meter, the test point is checked for voltage. The insulating cap is then removed with a hotstick and a high voltage meter is used to confirm the de-energized state before a ground cable is connected.

Ratings overview

See pages A4–A5 for complete information.

Current ratings
(Prefixes: 650, K650, K651, K655, K656, 750, 755, 756 and 03700)
- 600 A continuous
- 25 kA sym., 10 cycles

(Prefixes 675, K671, K675, K676, 775, 776 and 03702)
- 900 A continuous
- 25 kA sym., 10 cycles

Note: 900 A ratings require copper cable and copper current-carrying components.

Voltage ratings
15/25 kV class (5 kV thru 28 kV)
- 16.2 kV phase-to-ground
- 28 kV phase-to phase
- 140 kV BIL
- 45 kV AC withstand
- 84 kV DC withstand
- 21.5 kV corona extinction

35 kV class
- 21.1 kV phase-to-ground
- 36.6 kV phase-to-phase
- 150 kV BIL
- 50 kV AC withstand
- 103 kV DC withstand
- 26 kV corona extinction

Note: Elastimold has increased the IEEE Standard Production and Design Test levels for 25 kV class products to include 27 kV and 28 kV systems.

* Tested at 8.3/14.9 kV
† Tested at 15.2/26.3 kV
• Tested at 21.1/36.6 kV

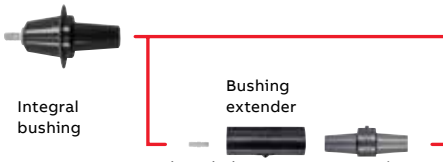
600 A deadbreak separable connectors

600 series deadbreak components

* Tested at 8.3/14.9 kV
† Tested at 15.2/26.3 kV
• Tested at 21.1/36.6 kV

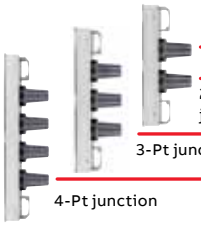
Cable to equipment

See pages A104–A113 for surge arrester applications.

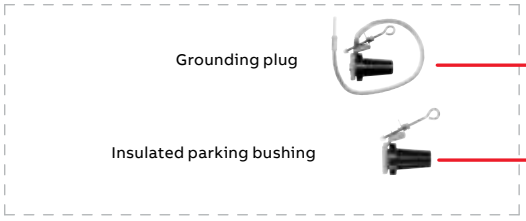


Cable to cable (using junctions)

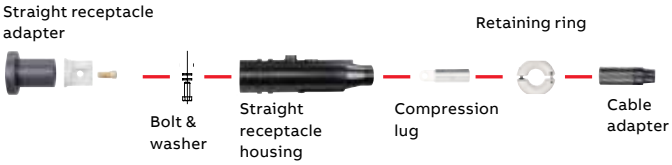
See pages A34–A37 for additional junctions



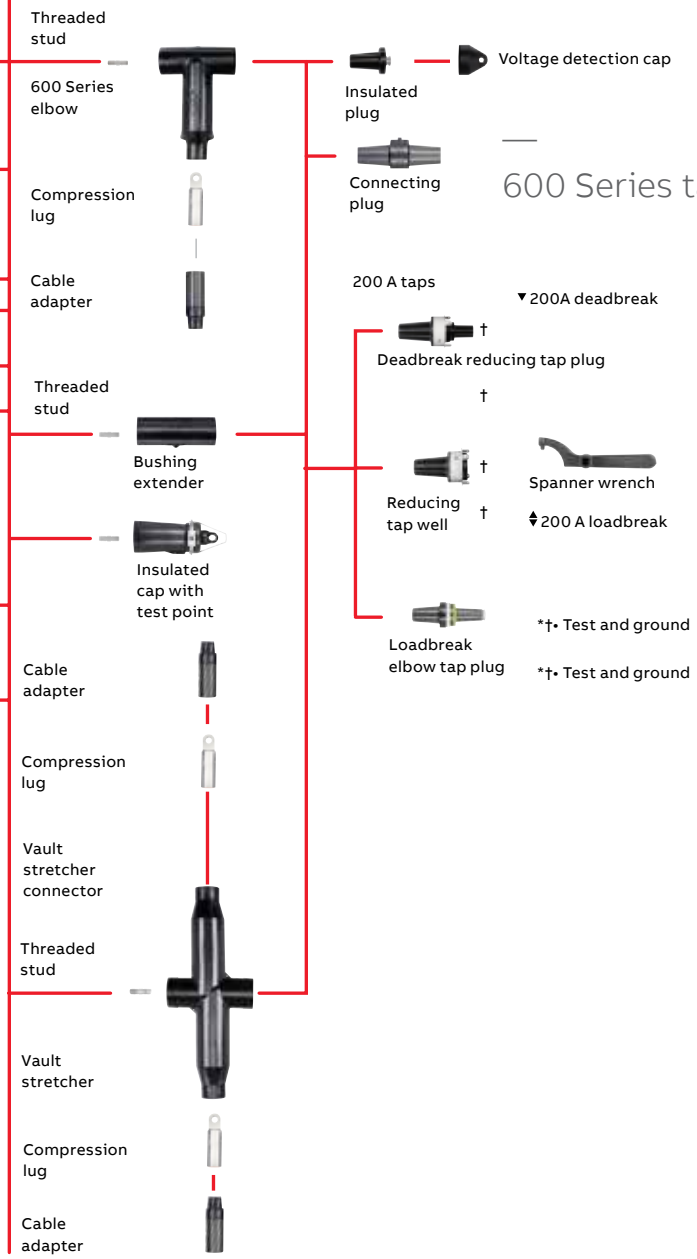
Operating accessories



Straight receptacle



Elbow connector



600 Series taps

600 A deadbreak separable connectors

600 A deadbreak elbows

600 A deadbreak elbows

Image (not to scale)	Description	Voltage class (kV)	Cat. no.	Notes
	600 Series elbow (with insulating plug, cap, stud, lug and cable adapter)	15/25	K655LR-W0X Use tables W7 and X6	N1, 2
		35	755LR-W0X Use tables W9 and X6	N1, 2, 15
	600 Series direct test elbow (with insulating plug, cap, stud lug and cable adapter)	15/25	K655DLR-W0X Use tables W7 and X6	N1, 2, 12
		35	755DLR-W0X Use tables W9 and X6	N1, 2, 12, 15
	600 Series elbow with test point (with insulating plug, cap, stud, lug and cable adapter)	15/25	K656LR-W0X Use tables W7 and X6	N1, 2
		35	756LR-W0X Use tables W9 and X6	N1, 2, 15
	600 Series direct test elbow with test point (with insulating plug, cap, stud, lug and cable adapter)	15/25	K656DLR-W0X Use tables W7 and X6	N1, 2, 12
		35	756DLR-W0X Use tables W9 and X6	N1, 2, 12, 15
	600 Series elbow without test point housing only (with stud)	15/25	K655BLR	N1, 3
		35	755BLR	N1, 3, 15
	600 Series elbow with test point housing only (with stud)	15/25	K656BLR	N1, 3
		35	756BLR	N1, 3, 15
	600 Series straight receptacle (with cable adapter, lug and retaining ring)	15/25	K655SR-W0X Use tables W7 and X6	N1, 2, 11
	600 Series direct test straight receptacle elbow	15/25	K655DSR-W0X Use tables W7 and X6	N1, 2, 11, 12
	600 Series straight receptacle housing (lug and cable adapter not included)	15/25	K655BSR	N1,11
	Straight receptacle adapter	15/25	K650SRA	N1, 4
	600 Series vault stretcher (housing only with stud)	15/25 kV	K655BVS	N1, 9
		35 kV	755BVS	N1, 9

N1. For 900 A ratings, substitute 675 for 650 and 655; 676 for 656; K671 for K651; K675 for K650 and K655; K676 for K656; 775 for 750 and 755; 776 for 756 and 2X for 0X in the catalog number. The 900 A rating requires copper current-carrying connector components and copper conductor cable.
N2. Add suffix symbol from page A17 to include cable shield grounding kit and/or cable jacket sealing kit.
N3. Available without the stud by adding "N" to the catalog number.
N4. Straight receptacle adapter is used to connect straight receptacles K655YBSR and K655YSR-W0X (page A33) to equipment bushings.
N5. Aluminum lug for use on aluminum or copper conductors. DO NOT substitute threaded 03600X lug.
N6. Copper lug for use on COPPER CONDUCTOR ONLY. DO NOT substitute threaded 03602X lug.
N7. Available with the stud factory-assembled by adding "SP" to the catalog number. 675ETP, K675ETP and 775ETP are available as -SP only. The stud is not field removable.
N8. Available with a loose stud by adding suffix "S" to the catalog number.
N9. 600SW spanner wrench is recommended for installation of deadbreak reducing tap plugs and reducing tap wells.
N10. Use 600ATM assembly tool.
N11. 600 Series elbows and straight receptacles with IEEE Std. 386 capacitive test points are available by substituting 656 for 655; K656 for K655; K676 for K675; 756 for 755; 676 for 675; K676 for K675 and 776 for 775 in the catalog number.
N12. Direct test connectors, along with a 200TC-X series meter adapter, a properly rated voltage meter and hot-line stick; provides a means for direct conductor voltage testing.
N13. With stainless steel bracket.
N15. Available with 200 kV BIL adding suffix "-200".
N16. Bimetallic Lug for use on aluminum or copper conductors. DO NOT substitute threaded 05501X lug

Refer to the W and X tables on pages A54–A55 for sizing to cable insulation diameter and conductor size. For cable shield adapters and jacket seals, see pages A44–A45.

600 A deadbreak separable connectors

600 series deadbreak components

600 A deadbreak accessories

Image (not to scale)	Description	Voltage class (kV)	Cat. no.	Notes
	Cable size adapter	15/25	655CA-W Use tables W7	–
		35	755CA-W Use tables W9	–
	Compression lug	All	03700X Use tables X6	N5
		All	03702X Use tables X6	N6
	Bimetallic compression lug	All	04601XXX Use Table X6	N16
	Epoxy connecting plug	15/25	K650CP	N9
	600 Series elbow and vault stretcher size sensitive kit (cable adapter and lug)	15/25	655CK-W0X Use tables W7 and X6	N2
		35	755CK-W0X Use tables W9 and X6	N2
	Adapter retaining ring	All	650ARR-X Use Table X6	–
	600 Series straight receptacle size sensitive kit (cable adapter, retaining ring and lug)	15/25	655CK-W0X-ARR Use tables W7 and X6	N2
	Bushing extender (with stud)	15/25	K655BE	N1, 3
		35	755BE	N1, 3
	Insulated cap with test point (with stud)	15/25	K656DR	N3, 7
		35	756DR	–
	Insulated cap with test point (with stud) and ground	15/25	K656DRG	N3, 7
		35	756DRG	–
	Insulating plug (with cap)	15/25	K650BIP	N1, 7, 8
		35	750BIP	N1, 7, 8
	Grounding plug (ground lead 2/0 AWG x 30")	15/25	650GP	N1, 7, 8
		35	750GP	N1, 7, 8
	Insulated parking bushing	15/25	K650SOP	N7, 8
		35	750SOP	N7, 8
	Connecting plug	15/25	K651CP	N1, 7, 8, 10
		35	750CP	N1, 7, 8, 10
	Deadbreak reducing tap plug	15/25	K650RTP	N1, 7, 8, 9
	Reducing tap well	15/25	K650RTW	N1, 7, 8, 9
	Loadbreak elbow tap plug	15	650ETP	N1, 7, 8, 10
		25	K650ETP	N1, 7, 8, 10
		35	750ETP	N1, 7, 8, 10
	Vault stretcher threaded stud	15/25	650VSA	N1
		35	750VSA	N1
	600 Series elbow threaded stud	15/25	650SA	N1
		35	750SA	N1
	Assembly tool (window-op)	All	600ATM	–
	Spanner wrench	All	600SW	N9
	Direct voltage test meter adapter for: HD electric meters	All	200TC-1	N12
	Ross meters		200TC-2	N12
	Chance meters		200TC-4	N12

N1. For 900 A ratings, substitute 675 for 650 and 655; 676 for 656; K671 for K651; K675 for K650 and K655; K676 for K656; 775 for 750 and 755; 776 for 756 and 2X for 0X in the catalog number. The 900 A rating requires copper current-carrying connector components and copper conductor cable.
N2. Add suffix symbol from page A17 to include cable shield grounding kit and/or cable jacket sealing kit.
N3. Available without the stud by adding "N" to the catalog number.
N4. Straight receptacle adapter is used to connect straight receptacles K655YBSR and K655YSR-W0X (page A33) to equipment bushings.
N5. Aluminum lug for use on aluminum or copper conductors. DO NOT substitute threaded 03600X lug.
N6. Copper lug for use on COPPER CONDUCTOR ONLY. DO NOT substitute threaded 03602X lug.
N7. Available with the stud factory-assembled by adding "SP" to the catalog number. 675ETP, K675ETP and 775ETP are available as -SP only. The stud is not field removable.
N8. Available with a loose stud by adding suffix "S" to the catalog number.
N9. 600SW spanner wrench is recommended for installation of deadbreak reducing tap plugs and reducing tap wells.
N10. Use 600ATM assembly tool.
N11. 600 Series elbows and straight receptacles with IEEE Std. 386 capacitive test points are available by substituting 656 for 655; K656 for K655; K676 for K675; 756 for 755; 676 for 675; K676 for K675 and 776 for 775 in the catalog number.
N12. Direct test connectors, along with a 200TC-X series meter adapter, a properly rated voltage meter and hot-line stick; provides a means for direct conductor voltage testing.
N13. With stainless steel bracket.
N15. Available with 200 kV BIL adding suffix "-200".
N16. Bimetallic lug for use on aluminum or copper conductors. DO NOT substitute threaded 05501X lug.

Refer to the W and X tables on pages A54–A55 for sizing to cable insulation diameter and conductor size. For cable shield adapters and jacket seals, see pages A44–A45.

600 A deadbreak elbow separable connectors

600 series deadbreak components

600 series deadbreak elbows, straight receptacles, junctions, vault stretchers and accessories are used to connect equipment and cable on primary feeder and network circuits. Designs accommodate large conductors and feature bolted connections and deadfront modular construction for maximum reliability, performance and versatility.

De-energized connectors can be quickly and easily connected and disconnected using standard hand tools and equipment in accordance with accepted operating practices. Optional accessories allow visible external separation, bypass, isolation, dead-ending, grounding and testing as well as adding taps, surge arresters and circuit protection.

Hotstick operable and separable joint systems are shown on pages A22–A28.

Elastimold junctions are designed for subsurface, vault or padmount applications and can be used for sectionalizing, looping, tapping and equipment bypass. Junctions are designed to mate with other Elastimold products including:

- K655 elbow connector
- K655BE bushing extender
- 655BEA3 bushing adapter

Elastimold junctions are equipped with a stainless steel mounting bracket and back plate suitable for mounting on a flat surface.

Features

- 15/25 kV and 35 kV, 600 A deadbreak
- 2-Way, 3-way and 4-way junctions
- 200 kV BIL is available for the 35 kV products
- Fully shielded, fully submersible molded rubber housing
- Stainless steel mounting bracket

Ratings overview

See page A4–A5 for complete information.

Current ratings
(Prefixes: 650, K650, K651, K655, K656, 750, 755, 756 and 03700)
- 600 A continuous
- 25 kA sym., 10 cycles

(Prefixes 675, K675, K671, K676, 775, 776 and 03702)
- 900 A continuous
- 25 kA sym., 10 cycles

Note: 900 A ratings require copper cable and copper current-carrying components.

Voltage ratings
15/25 kV class (5 kV through 28 kV)
- 16.2 kV phase-to-ground
- 28 kV phase-to-phase
- 140 kV BIL
- 45 kV AC withstand
- 84 kV DC withstand
- 21.5 kV corona extinction

35 kV class
- 21.1 kV phase-to-ground
- 36.6 kV phase-to-phase
- 150 kV BIL
- 50 kV AC withstand
- 103 kV DC withstand
- 26 kV corona extinction

Note: Elastimold has increased the IEEE Standard Production and Design Test levels for 25 kV class products to include 27 kV and 28 kV systems.

* Tested @ 8.3/14.9 kV
† Tested @ 15.2/26.3 kV
• Tested @ 21.1/36.6 kV

Separable connectors 600 series deadbreak

See pages A104–A113 for surge arrester applications.

Straight receptacle

Cable to equipment

Elbow connector

600 Series taps

Cable to cable (using junctions)

Operating accessories

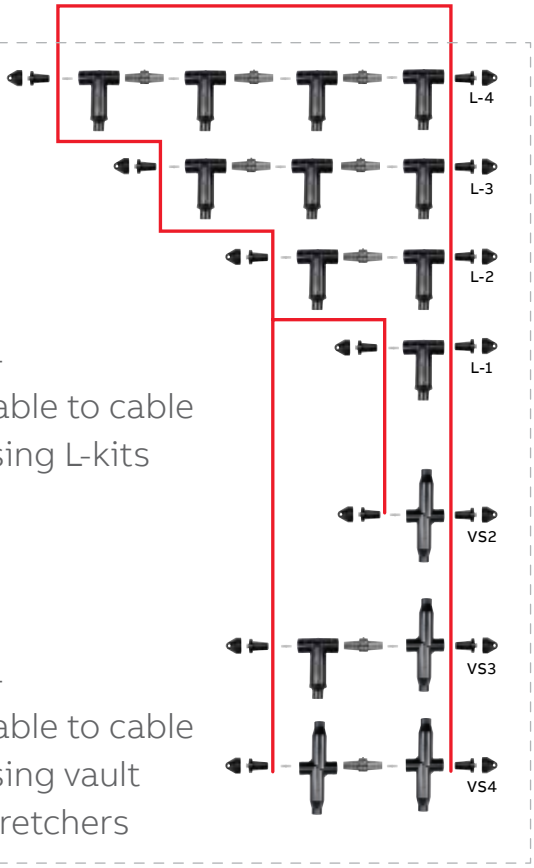
Hotstick operable 600 series connectors See pages A22–A28

Threaded compression lug

Stick-Op loadbreak reducing tap plug

Cam-Op retainer sleeves

Cam-Op link connector



Cable to cable using L-kits

Cable to cable using vault stretchers

600 A deadbreak elbow separable connectors

600 series deadbreak components

600 series deadbreak components

Image (not to scale)	Description	Voltage class (kV)	Cat. no.	Notes
	2-point junction	15/25	K650J2	N1, 7, 8
		35	750J2	N1, 7, 8, 11
	3-point junction	15/25	K650J3	N1, 7, 8
		35	750J3	N1, 7, 8, 11
	4-point junction	15/25	K650J4	N1, 7, 8
		35	750J4	N1, 7, 8, 11
	1-way L-kit	15/25	K655L1	N1, 2, 3, 9, 10
		35	755L1	N1, 2, 3, 11
	2-way L-kit	15/25	K655L2-WOX	N1,2 ,3, 4, 5, 6, 9, 10
		35	755L2-WOX	N1, 2, 3, 4, 5, 6, 11
	2-way VS-kit	15/25 kV	K655VSL2-WOX	N1, 2, 3, 9, 10
		35 kV	755VSL2-WOX	N1, 2, 3, 11
	3-way L-kit	15/25	K655L3-WOX	N1, 2, 3, 4, 9, 10
		35	755L3-WOX	N1, 2, 3, 4, 11
	3-way VS kit	15/25	K655VSL3-WOX	N1, 2, 3, 5, 6, 9, 10
		35	755VSL3-WOX	N1, 2, 3, 5, 6, 11
	4-way L-kit	15/25	K655L4-WOX	N1, 2, 3, 4, 9, 10
		35	755L4-WOX	N1, 2, 3, 4, 11
	4-way VS-kit	15/25	K655VSL4-WOX	N1, 2, 3, 5, 6, 9, 10
		35	755VSL4-WOX	N1, 2, 3, 5, 6, 11
	Assembly tool	All	600ATM	–

N1. For 900 A ratings, substitute 675 for 650 and 655; 676 for 656; K675 for K650 and K655; K676 for K656; 775 for 750 and 755; 776 for 756 and 2X for 0X in the catalog number. The 900 A rating requires copper current-carrying connector components and copper conductor cable.
N2. L-Kits and VS-Kits do not include cable adapters or compression lugs. These items must be ordered separately.
N3. 600 Series Elbows and Straight Receptacles with IEEE Std. 386 capacitive test points are available by substituting 656 for 655; K656 for K655; K676 for K675; 756 for 755; 676 for 675; K676 for K675 and 776 for 775 in the catalog number.
N4. 600ATM is recommended for installing K651CP and 750CP.
N5. Can be used as a repair joint mounting hardware. (Gains 3½" of repair length.)
N6. Can be used as a reducing joint for different size cables.
N7. Rubber junction with stainless steel mounting plate and back plate. Add "-U" for rubber junction with stainless steel mounting plate, back plate and adjustable mounting bracket. Add "-4" for rubber junction only. Add "-5" for rubber junction, stainless steel U-straps and back plate. Add "-6" Hardware package consists of brackets and straps only.
N8. Two - six-position multi-point junctions shown on pages A34–A35.
N9. Replace "L" for "E" when connecting to equipment and one BIP is not required (i.e., K655E2, K655E3, K655VSE3).
N10. Add "G" after "L" to replace a BIP with a GAD + GADDR or "GB" for a BGAD+BGADDR (i.e., K655EG2, K655LGB3, K655VSEG3).
N11. Available with 200 kV BIL adding sufix "-200".

Refer to the next page for L-kits and vault stretcher kits ordering information.