# DuraGard waterproof connections

## Plugs, connectors and receptacles

### Materials

| Part | Material |
|---|---|
| Contact carrier interior | Molded arc-resistant UL 94-V0 phenolic thermoset |
| Housing, gland nuts, screw collar rings | DuraV UL 94-V0, high-impact thermoplastic |
| O-rings | Buna-N (nitrile) |
| Contacts: pins and sleeves | Brass CDA 360 |
| Hinge pins (receptacle) | Stainless steel |
| Terminals | Brass CDA 360 |
| Terminal screws, flap springs, assembly screws, nuts, hardware | Stainless steel |
| Gland friction washer | 20 A – nylon<br>30, 50 and 60 A – aluminum |
| Cable clamp bushing | Neoprene |

### Approvals

630/E47956 LL14096

* TUV & PSE listed product also available; contact Technical Services.

### Performance – Electrical

| Application | Performance |
|---|---|
| Dielectric voltage withstand | 3000 V |
| Max. Working voltage | 6000 V RMS (minimum creepage distance and minimum clearance per UL 840) |
| Circuit interrupting/ load breaking | UL listed and CSA certified for circuit interrupting at full rated current |
| Temperature rise | Max. 30 °C/86 °F temperature rise at full rated current after 50 cycles of overload at 150% rated current at 0.75 pf |

### Performance – Mechanical

| Application | Performance |
|---|---|
| Impact resistance | Per UL 1682 paragraph 34 |
| Cord accommodation | Round portable service cords. 10 standard diameters from 0.405" to 1.00", custom sizes to spec |
| Terminal identification | In accordance with UL 1682 |
| Cable pull out force | In accordance with UL 1682 |
| Product identification | Identification label and molded in name |
| Lockout/tagout | Lockout/tagout hole on plug complies with OSHA Reg. 29 CFR 1910.147 |

### Performance – Environmental

| Application | Performance |
|---|---|
| Moisture resistance | Per UL 1682 paragraph 49 watertight/ flap screw cover on receptacle, O-rings on all pins and sleeves, interiors and plug shell. Watertight even when not engaged |
| Flammability | V0 or better per UL 94 |
| Operating Temperatures | Maximum continuous: 95 °C/203 °F<br>Minimum: -40 °C/-40 °F without impact |
| Chemicals | Resists standard industrial hydrocarbons, acids, bases and solvents |
| UV resistance | UV resistant housing per UL 746C |

# DuraGard waterproof connections
## Safety interlocks

**Performance – Electrical**

| Application | Performance |
|---|---|
| Dielectric voltage withstand | 3000 V |
| Max. Working voltage | 480 V RMS (minimum creepage distance and minimum clearance per UL 840) (using circuit breaker) |
| Circuit interrupting/ load breaking | UL listed and CSA certified for circuit interrupting at full rated current |
| Temperature rise | Max. 30 °C/86 °F temperature rise at full rated current after 50 cycles of overload at 150% rated current at 0.75 pf |
| Shrouded contacts | Complies with California Code Title 8, Art. 51, S2510.7(b) for devices exceeding 300 V AC |

**Performance – Mechanical**

| Application | Performance |
|---|---|
| Impact resistance | Per UL 1682 Paragraph 34 |
| Wiring accommodation | Conduit entries at top, side and bottom, 0.750" NPT top entry standard |
| Terminal identification | In accordance with UL 1682 |
| Plug pull out force | In accordance with UL 1682 |
| Product identification | Identification label |
| Lockout/tagout | Lockout/tagout access on switch complies with OSHA Reg. 29 CFR 1910.147 |

**Performance – Environmental**

| Application | Performance |
|---|---|
| Moisture resistance | Per UL 1682 Paragraph 49. Watertight/ flap screw cover on receptacle, O-rings on all pins and sleeves, interiors and plug shell. Watertight even when not engaged (screw cover closed/locked) |
| Flammability | V0 or better per UL 94 |
| Operating | Maximum continuous: 95 °C/203 °F |
| Temperatures | Minimum: -40 °C /-40 °F without impact (Note: per C/B trip at elevated temps.) |
| Chemicals | Resists standard industrial hydrocarbons, acids, bases and solvents |
| UV resistance | UV-resistant housing per UL 746C |

**Materials**

| Part | Material |
|---|---|
| Contact carrier interior | Molded arc-resistant UL 94-V0 thermoset material |
| Housing, gland nuts, screw collar rings | DuraV UL 94-V0, high-impact Thermoplastic |
| O-rings | Buna-N (Nitrile) |
| Contacts: pins and sleeves | Brass CDA 360 |
| Hinge pins (receptacle) | Stainless steel |
| Terminals | Brass CDA 360 |
| Terminal screws, flap springs, assembly screws, nuts, hardware | Stainless steel |
| Gland friction washer | 20 A – nylon 30, 50 and 60 A – aluminum |
| Cable clamp bushing | Neoprene |

**Approvals**