

Russellstoll®**DuraGard® Waterproof Connections**

Washdown Duty, Chemical, Outdoor, Industrial & Marine Use Non-Metallic Plugs, Connectors Receptacles & Inlets – 20, 30 & 50 Amp, Maximum 600 VAC/250 VDC

**The Next Generation: DuraGard®**

Severe environments and high pressure washdown duty applications require durable, waterproof and safe connections. Russellstoll takes design reliability to new heights with Safety Grade™ standards for truly waterproof connectors. Many watertight specifications cover mated connections only. DuraGard connectors are designed to be watertight *mated* or *unmated*, thus offering the ultimate waterproof connection. DuraGard connectors are also UL94-V0 flame rated for safety and utilize a durable, efficient pin & sleeve contact design that is voltage polarized to meet NEC210-7 and OSHA standards. DuraGard® ... designed for maximum safety, durability and performance.

DuraGard® Features Make the Performance Difference.**Not just “watertight”; Waterproof for Washdown Duty: DurORing™ Sealing**

- Specifically designed for wet environments with our unique DurORing™ sealing system. Unit is watertight mated or unmated.
- Eliminates need for costly “weather boots” or “adapters”.
- Compact Size.
- “Lockout Ready” plugs have padlock access hole in front. (30/50A).

**Durable, Tough & Flame Safety Rated Housings**

- DuraV™ housing material specially selected for hot or cold washdown duty.
- Flame Safe UL94-V0 rated housings.
- Superior Performance in Corrosive Environments.
- High Visibility yellow housings.

**Safe & Reliable Power Connections: Pin & Sleeve, Voltage Polarized**

- **Long Life:** Round, Self Cleaning, Constant Pressure Pin & Sleeve Contacts, of Solid CDA 360 brass for long reliable electrical life.
- **More Power, Operates Cooler:** large circular electrical contact area allows more current flow with lower temperature rise.
- **Ground Pin Keyed for Voltage Polarization** (O-ring seal)

**Easy To Wire**

- **“No twistoff” Locking Plugs™:** Integral Threaded Screw Collars and Compression type Bushings make wiring a snap.
- **Fast Assembly and Wiring:** “Drop-In” rear loaded interiors use no assembly screws, versus 3-5 or more with other connectors. 30/50A connectors use unique E-Z Tite™ external gland lock screw, also.

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DuraGard® Waterproof Connections

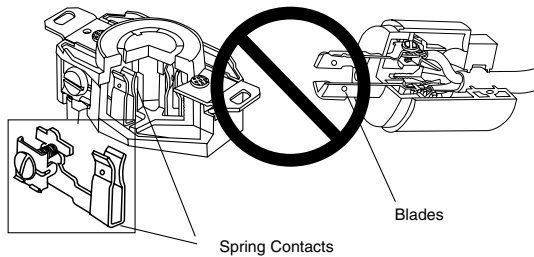
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DuraGard® Pin and Sleeve Connections

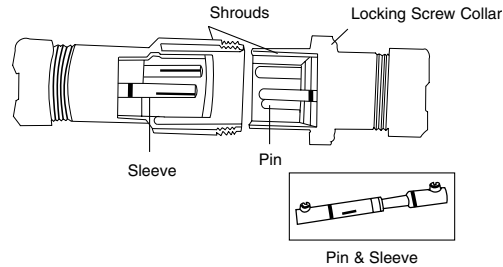
Pin & Sleeve contact devices consist of round male pins which are inserted into tubular female sleeves. Current flows through a large pin-to-sleeve circular contact area. Because current is not restricted through point contact only, higher current flow and cooler operating temperatures are achieved in a compact connection. Wiping action during insertion or withdrawal provides positive self cleaning. Shrouded pins

and sleeves are protected from physical damage or casual access and aid in polarization features of the line. The shroud and screw collar completely lock plugs to receptacles or connectors for a reliable connection. Step on the cord, kick or drop a plug; your connection will remain tight. *Pin & Sleeve devices are the safety standard for high current applications worldwide.*

Bladed Plug & Receptacle



Pin & Sleeve Connector & Plug



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Spring blade contact designs offer point contact only, with minimal mechanical support in receptacles. Higher heat is generated in use as contacts loosen with age and dirt accumulation, resulting in failures. Exposed blade contacts can easily be damaged. Contacts are both the electrical *and* mechanical locking method.

Pin & Sleeve design allows higher current flow at cooler temperatures due to large circular contact area. Sleeves act as retainers for the pins making a reliable connection. Shrouded pins & sleeves are protected from damage and inadvertent access. Locking housing screw collars provide for a reliable, long lasting connection, with electrical contacts separate.

The Water Spray Test



1000 PSI water spray was directly applied at the face of DuraGard receptacles. No damage occurred, and no water penetrated the housing or cord seal. DuraGard plugs, connectors and receptacles are designed to withstand water spray test at 1000 PSI. No extra cost boots or adapters required.



DuraGard: Designed For the Toughest Washdown Applications



Pulp & Paper



Food Processing



Beverage & Bottling



Pharmaceutical Manufacturing

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DuraGard® Waterproof Connections

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The Ultimate in Waterproof Connection

20, 30 & 50 Amps, 600 VAC
20 Amp, 250 VDC

Lockout Capable: (30/50A Plugs)

- Access Hole (not seen) For Padlock Hasp.
- Interlock Engagement CDA 360 Solid Brass Pin & Sleeve Contacts.

High Reliability, High Performance Connections:

- CDA 360 Solid Brass Pin & Sleeve Contacts.

Long Lasting Self Cleaning Connections:

- Full Round Pin & Sleeve Contacts.

Fast, Easy, Rear Load Wiring & Assembly:

- Drop-in Assembly Interior.
- Sleeve & Cable Bushing.
- Easy-in pressure screw wiring terminations.

Waterproof Cable Sealing:

- Neoprene Compression Bushing Cable Locking System.
- Locking Bushing Nut with External Cable Clamps.
- Bushing sizes available for any cable size.

Waterproof Locking Connections:

- Locking Screw Collars with O-ring gaskets.
- Housing mechanical support and pin and sleeve connection.

Safety Specified Voltage Connections:

- Safety Ground Makes First, Breaks Last.
- Voltage Polarized to Meet NEC210-7 and OSHA Standards.

Durable & UL94-V0 Flame Rated Housings

- DuraV™ high impact body and collars.
- Thermoset Interiors.
- Dead Front Construction.

Dry Wiring Compartments:

- DurOring™ Sealing System for each pin & sleeve and interior assembly.

(50 Amp Plug & Connector Shown)