

Russellstoll®

FS/FD™ 10-30A Metallic Connections

Metallic Plugs, Connectors, Receptacles and Reverse Service Female Plugs/Male Inlets.
10, 15, 20 & 30A, Maximum 600VAC/250VDC

The FS/FD general purpose interconnection system is designed for lower amperage marine and industrial applications, with rugged die cast aluminum housings and epoxy powder coated finishes. Interlocked receptacles add

Branch Circuit protected outlet capability. Base receptacles fit existing Russellstoll FS, FD and DSFD single and multi-gang back boxes. Its versatility and watertight features make it ideal for marine and light industrial applications.

Safety

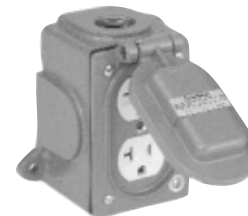
- Circuit-interrupting up to 30A, 250VAC (20A, 600VAC)
- Factory polarized interiors provide for mating of same voltage/same type devices, due to configured ground pins and housing features.
- Housing is grounded by means of ground strap integral with ground contact for assured assembly safety.

Durability

- Constructed of copper-free cast aluminum (Brass construction also available).
- Optional conduit adapters, strain reliefs and cable bushings available. (Modified catalogue number construction.)
- Nonmetallic versions of most metallic plugs and receptacles also available. (See DuraGard)

Performance

- Precision-made, self-aligning and self-wiping contacts.
- Devices available in watertight and weathertight versions.
- Solderless binding screw terminals for convenient wiring. (20A, 2P3W devices have set screw pressure terminals)



FS/FD line also includes NEMA type blade receptacles. See page 124.

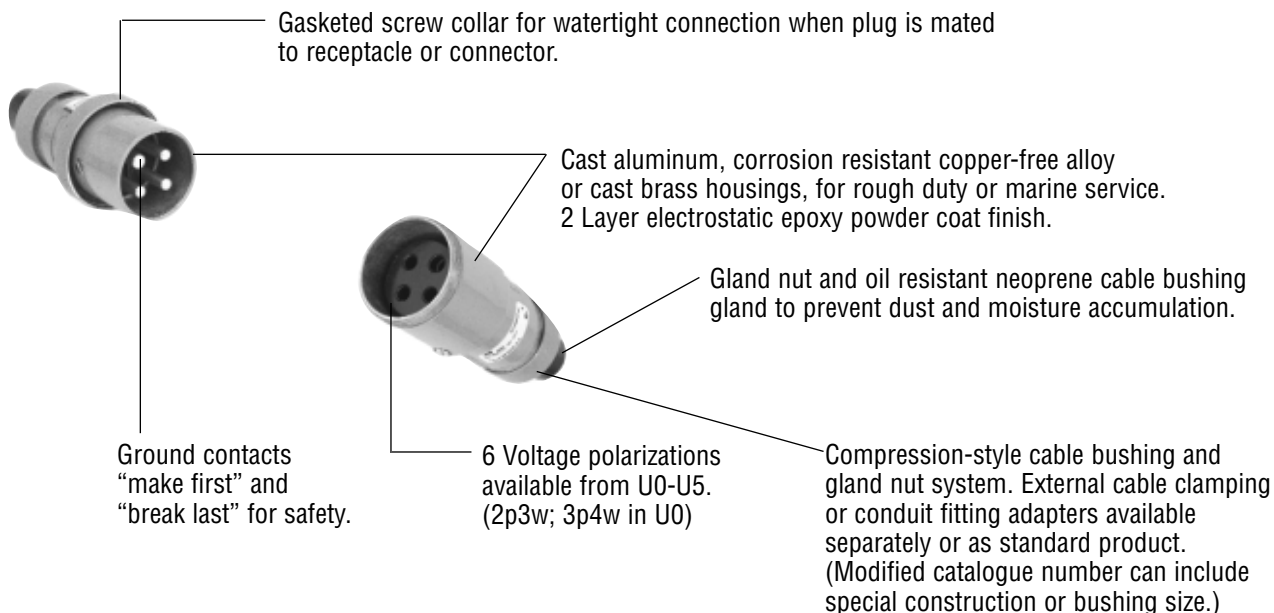
RUSSELLSTOLL® DURAGARD®/FS/FD

Russellstoll®

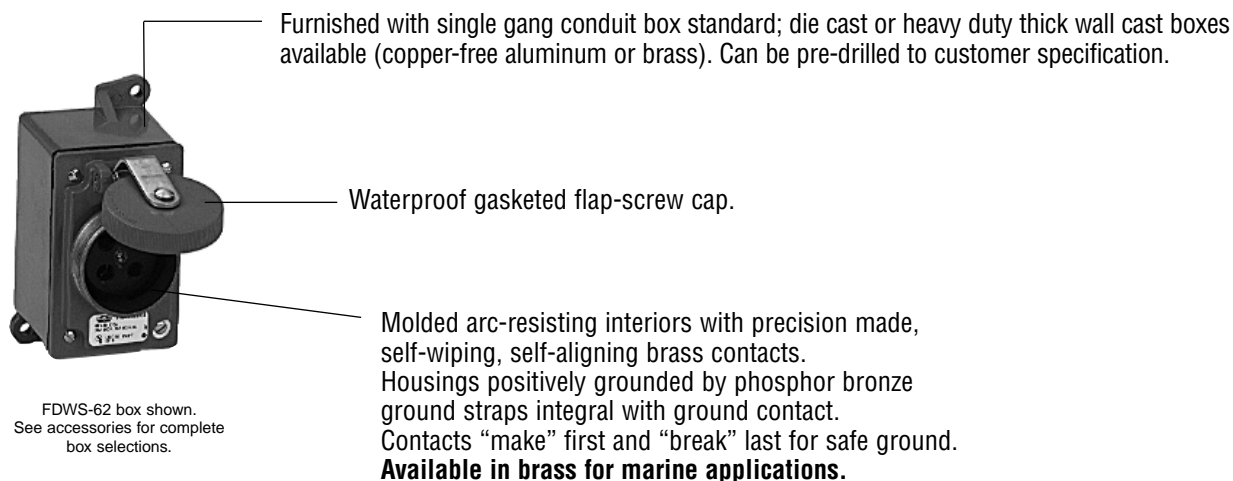
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Plug and Connector (+ Reverse Service Female Plug)



Receptacle (+ Reverse Service Male Inlet)



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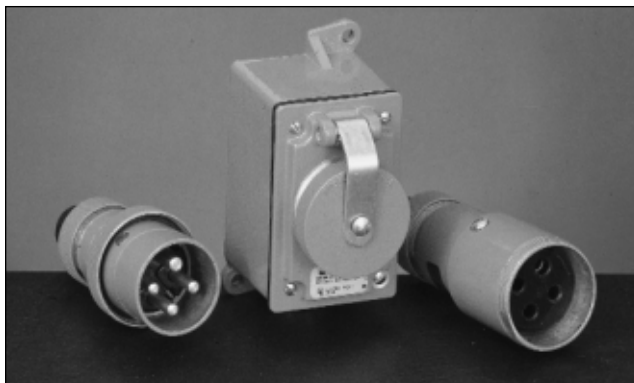
Engineering Specifications

Performance – Electrical

Dielectric Voltage Withstand	3,000 Volts
Max. Working Voltage	600 volts 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 temperature rise at full rated current after 50 cycles of overload at 150% rated current at .75-pf.
Shrouded Contacts	Complies with California Code Title 8, Art. 51,S2510.7(b) for devices exceeding 300 VAC
Horsepower	Per NEC 430-151 ratings (non-interrupting)

Performance – Mechanical

Impact Resistance	Per UL 1682 Paragraph 34
Cord Accommodation	Round portable service cords per UL standard 62 and CSA C22.2 No. 49.1
Terminal Identification	In accordance with UL 1682
Cable Pull-Out Force	In accordance with UL 1682
Product Identification	Identification label and name per UL 1686



Performance – Environmental

Moisture Resistance	Per UL 1682 Paragraph 49. Watertight/flap screw cover on receptacle.
Flammability	V0 / 5VA per UL94
Operating Temperatures	Maximum Continuous: 95°C / 203°F Minimum: -40°C / -40°F w/o impact
Chemicals	Resists standard industrial hydrocarbons, acids, bases and solvents.

Material

Contact Carrier	Molded arc resistant UL94-V0 thermoset material
Housing, Gland Nuts Screw Collar Rings	Cast Aluminum or Brass
Contacts: Pins and Sleeves	Brass
Hinge Pins (Receptacle)	Stainless Steel
Terminals	Brass
Terminal Screws Flap Springs Assembly Screws Nuts, Hardware	Stainless Steel
Gland Friction Washer Cable Clamp Bushing	Brass or Aluminum Neoprene

Approvals

