

MaxGard® Interconnection Systems

Industrial interlocked receptacles are available in 30 through 400 Amp. Switched receptacles have mechanical linkages for added safety. Safety features include:

- Plugs cannot be inserted unless power is safely turned off
- Plugs cannot be removed until power is safely turned off
- Specialty designs may also automatically disengage power if plug is removed while power is on, either mechanically or electrically

Applications

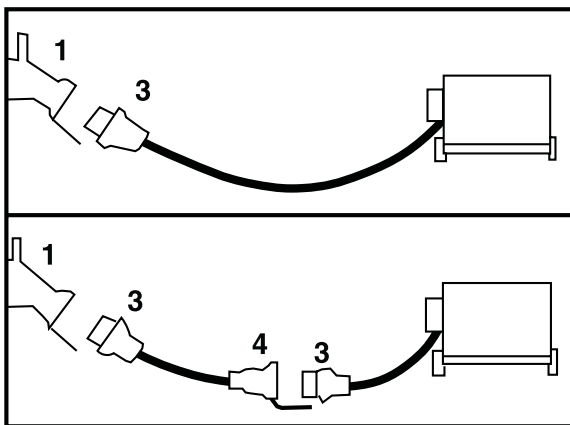
Applications where these units are most commonly used are:

- Welding stations in automotive and heavy industry
- Temporary and portable power distribution for construction
- Marine shore-to-ship power
- Industrial machinery installation
- Portable power distribution, vehicle and gen-set power for aerospace
- Custom systems in all industries

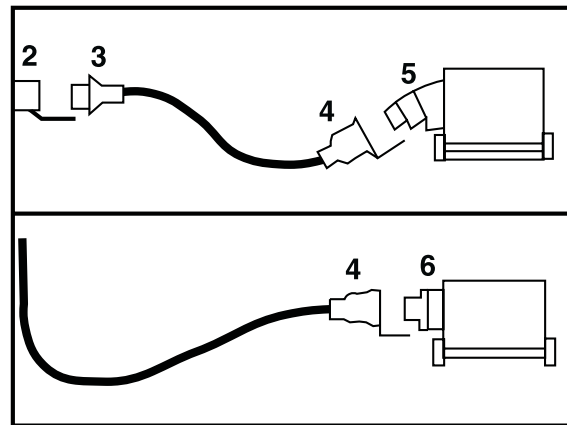


Russellstoll® Pin and Sleeve Power Distribution Systems

Sample Installation: Fixed Power Source (Wall) to Remote/Portable Location



1. Receptacle (wall-mounted female)
2. Receptacle (panel-mounted female)
3. Plug (attachment)



4. Female connector
5. Male Inlet with angle adapter
6. Male inlet with straight adapter

Other installations: generator power sources, custom control circuits, multiple voltage service — contact Technical Services.

MaxGard® Interconnection Systems

MaxGard® Fused-Disconnect** Interlocked Receptacle with Disconnect Switch

MaxGard® Fused-Disconnect Interlocked Receptacle with Safety Switch meets UL®, NEC® and major automotive specifications. This unit is the maximum in:

Safety

- Door safety switch with three external lockout points
- Safety fuse pulls for standard class R fuses
- Backup door safety latch

Durability

- Heavy .060 steel galvaneel with baked enamel, NEMA 3R/12 construction
- Clear shield for test probes

Performance

- Standard 600V cartridge fuse clips and spacing
- Fully interlocked MaxGard® receptacle
- Angled front receptacle for easier access



Ordering Information

Maximum 600VAC or 250VDC

Notes: **Non-fused, non UL version available:

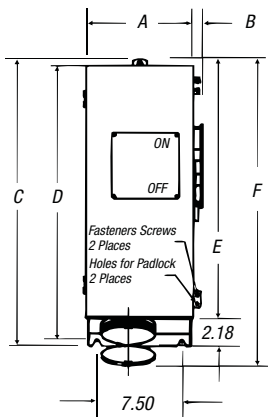
Specify DNRF _____.

Standard polarizations shown. Boldface figures are for voltage assignment; for different ratings, see page 40.

User Made Possible Conduit Hubs

AMP	STD. NPT THREAD OUTLET	MAX.
30	1½"	2½"
60	2"	2½"
100	2"	2½"

Specifications on pages 38–39.



	POLES/ WIRES	VOLTAGE	FUSED DISCONNECT** INTERLOCKED RECEPTACLE		
			NEMA 12/3R CAT. NO.	MATING MAXGARD PLUG CAT. NO.	STD. BUSHING ID
30 AMP	2P3W	125	DFRF31070	DS3107MP000	¾"
	2P3W	250	DFRF32070	DS3207MP000	¾"
	3P4W	30/250	DFRF33070	DS3307MP000	1"
	3P4W	30/480	DFRF34040	DS3404MP000	1"
	4P5W	277/480	DFRF35040	DS3504MP000	1¼"
60 AMP	2P3W	250	DFRF62070	DS6207MP000	1¼"
	3P4W	125/250	DFRF63070	DS6307MP000	1¼"
	3P4W	30/480	DFRF64040	DS6404MP000	1¼"
	4P5W	277/480	DFRF65040	DS6504MP000	1½"
100 AMP	2P3W	250	DFRF12070	DS1207MP000	1½"
	3P4W	125/250	DFRF13070	DS1307MP000	1½"
	3P4W	30/480	DFRF14040	DS1404MP000	1½"
	4P5W	277/480	DFRF15040	DS1504MP000	2"

▼ Control Contacts (position 9) use "K" example: DFRF1207K.
Always use liquidtight fittings to limit condensation entry.

Dimensions

AMP	A	B	C	D	E	F
30	9½"	¾"	25¾"	25"	22¾"	30"
60	9½"	¾"	25¾"	25"	22¾"	30"
100	9½"	¾"	25¾"	25"	22¾"	30"



MaxGard® Interconnection Systems

Maximum 600VAC/250VDC

MaxGard® NEMA 4X interlocks are ideal for demanding non-hazardous areas where dust, dirt, moisture and corrosion might be a problem — such as shipyards, food processing facilities, manufacturing operations or similar areas.

Safety

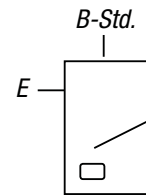
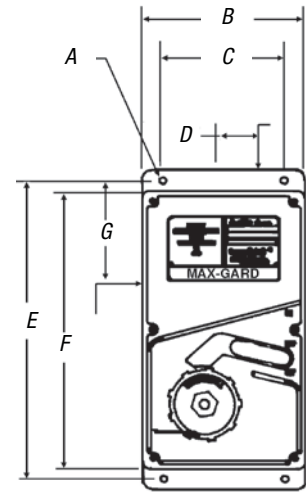
- Gated deadfront waterproof receptacle
- Standard, high AIC or NA/switch circuit breaker
- Protective screw cap for watertight protection

Durability

- Thick-wall cast copper-free aluminum housing with epoxy powder-coat finish
- Heavy-duty sliding bar interlock mechanism

Performance

- Heavy on/off handle adds mechanical ability to electrical interlock function
- Standard conduit openings through top or side



Russellstoll® Pin and Sleeve Power Connectors



Boldface figures are for voltage assignment; for different ratings, see page 40.

	POLES/ WIRES	VOLTAGE	MECHANICALLY INTERLOCKED RECEPTACLE NEMA 4X CAT. NO.	MATING MAXGARD PLUG CAT. NO.	STD. BUSHING ID
30 Amp	2P3W	125	DBRS310703000	DS3107MP000	7/8"
	2P3W	250	DBRS320703000	DS3207MP000	7/8"
	3P4W	30/250	DBRS330703000	DS3307MP000	1"
	3P4W	30/480	DBRS340403000	DS3404MP000	1"
60 Amp	4P5W	277/480	DBRS350403000	DS3504MP000	1 1/16"
	2P3W	250	DBRS620706000	DS6207MP000	1 3/16"
	3P4W	125/250	DBRS630706000	DS6307MP000	1 5/16"
	3P4W	30/480	DBRS640406000	DS6404MP000	1 5/16"
100 Amp	4P5W	277/480	DBRS650406000	DS6504MP000	1 1/2"
	2P3W	250	DBRS120710000	DS1207MP000	1 11/16"
	3P4W	125/250	DBRS130710000	DS1307MP000	1 13/16"
	3P4W	30/480	DBRS140410000	DS1404MP000	1 3/4"
200 Amp	4P5W	277/480	DBRS150410000	DS1504MP000	2"
	3P4W	277/480	DBRS230720000	DS2307MP000	1 1/4"
	3P4W	30/480	DBRS240420000	DS2404MP000	2 1/4"
	4P5W	277/480	DBRS250420000	DS2504MP000	2 1/2"
400 Amp	3P4W	277/480	DBRS430740000	DS4307MP000	3"
	3P4W	30/480	DBRS440440000	DS4404MP000	3"
	4P5W	277/480	DBRS450440000	DS4504MP000	3 1/4"

(Flap-Cap available by replacing "DBRS" with "DBRF")

Conduit Hubs: (at B or E)

AMP	STD. NPT THREAD OUTLET	MAX.
30	1 1/2"	2 1/2"
60	1 1/2"	2 1/2"
100	2"	2 1/2"
200	2"	3"
400	4"	4"

▼ **Control Contacts** (position 12) use "K" example: DBRS6104060K0

Shunt Trip Breaker (position 13) add "Z" to above: DBRS6104060KZ

Breaker Trip Ratings (positions 9, 10, 11) 30 amp use 030; 60 amp use 060; alternate trip ratings available — consult Technical Services

Non-Auto Sw. NAO (repl. "DBRF" with "DSRF")

For additional full line and polarization options, see page 40.

Dimensions

AMP	A	B	C	D	E	F	G
30	3/8"	8 3/4"	6 1/2"	1 1/2"	16 1/4"	15 1/8"	3 1/8"
60	3/8"	8 3/4"	6 1/2"	1 1/2"	16 1/4"	15 1/8"	3 1/8"
100	3/8"	8 3/4"	6 1/2"	1 1/2"	16 1/4"	15 1/8"	3 1/8"
200	3/8"	12 1/4"	9"	2 1/2"	26 1/4"	24 3/4"	5"
400	3/8"	15 1/2"	12"	3"	30 1/2"	29"	6"