

# Powerlite™ Series Pin and Sleeve Plugs, Connectors and Receptacles

## NEC/CEC:

Listed for Ordinary (Unclassified) Locations  
NEMA 3, 3R, 4, 4X

PLUGS AND RECEPTACLES: NEC/CEC ORDINARY LOCATION

APPLETON™

## Applications

- Designed to supply power to portable or fixed electrical equipment such as motor generator units, welders, pumps, compressors, cellular relay stations, and similar apparatus.
- Ideal for use on shipping docks, ports, and other "ship to shore" applications.
- Suitable for use in locations where a weatherproof enclosure is required.
- Rough usage construction.

## Features

- Available in 30, 60, 100, 150, 200, and 400 Amp units.
- Available in two grounding styles: Style 1 (shell only) and Style 2 (shell and extra pole).
- Neoprene bushing compressed by cable collar prevents entrance of water. Bushing is highly resistant to hydrocarbon deterioration and is self-extinguishing.
- Locking screw and slot prevents plug cable collar from "backing off."
- Contacts exert constant pressure along entire contact surface and provide electrical continuity.
- Ambient temperature range of -25°C to +40°C (-13°F to +104°F).
- Insulating blocks provide greatest dielectric and mechanical strength and lowest arc tracking.
- Positive polarization: only plugs and receptacles of same style, number of poles and ampere rating can be used together.
- Circuit breaking: in 30, 60, 100, 150 and 200 Amp units, any arcing created as line and load terminals disengage is safely confined deep within terminal cavities. Plugs may be withdrawn in an emergency under full rated loads without separate disconnect switches (400 Amp plug is for disconnecting use only; not for current rupturing).
- 30, 60, 100, and 150 Amp Powerlite™ plugs also suitable for classified locations when used with Appleton EBR, EBRH, JBR, MD2SR, or DBR explosionproof interlocking receptacles.
- Controlled length contacts ensure that ground makes first and breaks last for added safety.
- Intermatability ②: Intermateable with Crouse-Hinds ⚡ Arktite® and Powermate™, and Killark ⚡ Versamate®.

## Standard Materials

- Plug, receptacle, connector and mounting box housings: copperfree (4/10 of 1% max.) aluminum
- Insulating blocks: glass filled polyester

## Standard Finishes

- Aluminum plug, receptacle, connector and mounting box housings: epoxy powder coat
- Insulating blocks and contacts: natural finish



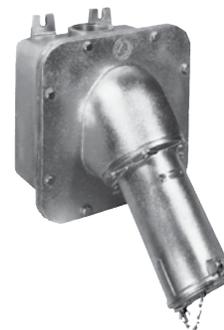
30 and 60 Amp



100 and 150 Amp



200 Amp



400 Amp

## Options

- See Illustrated Options

## NEC/CEC Certifications and Compliances

- UL Standard: UL 1682, UL 1686 ①, UL 50E
- UL Listed: E145916, E145917
- CSA Standard: C22.2 No. 182.1
- CSA Certified: 065179
- NEMA 4X (30, 60, 100, 150, and 200 Amp)
- NEMA Configuration: FB11

## Related Products

- For classified location plugs and receptacles, see *Plugs and Receptacles: Hazardous Location*.

① The UL 1686 standard is applicable to units up to 100 Amps.

② Classified by UL and Certified by CSA for use in specific combinations with Crouse-Hinds Arktite® or Killark Versamate®.

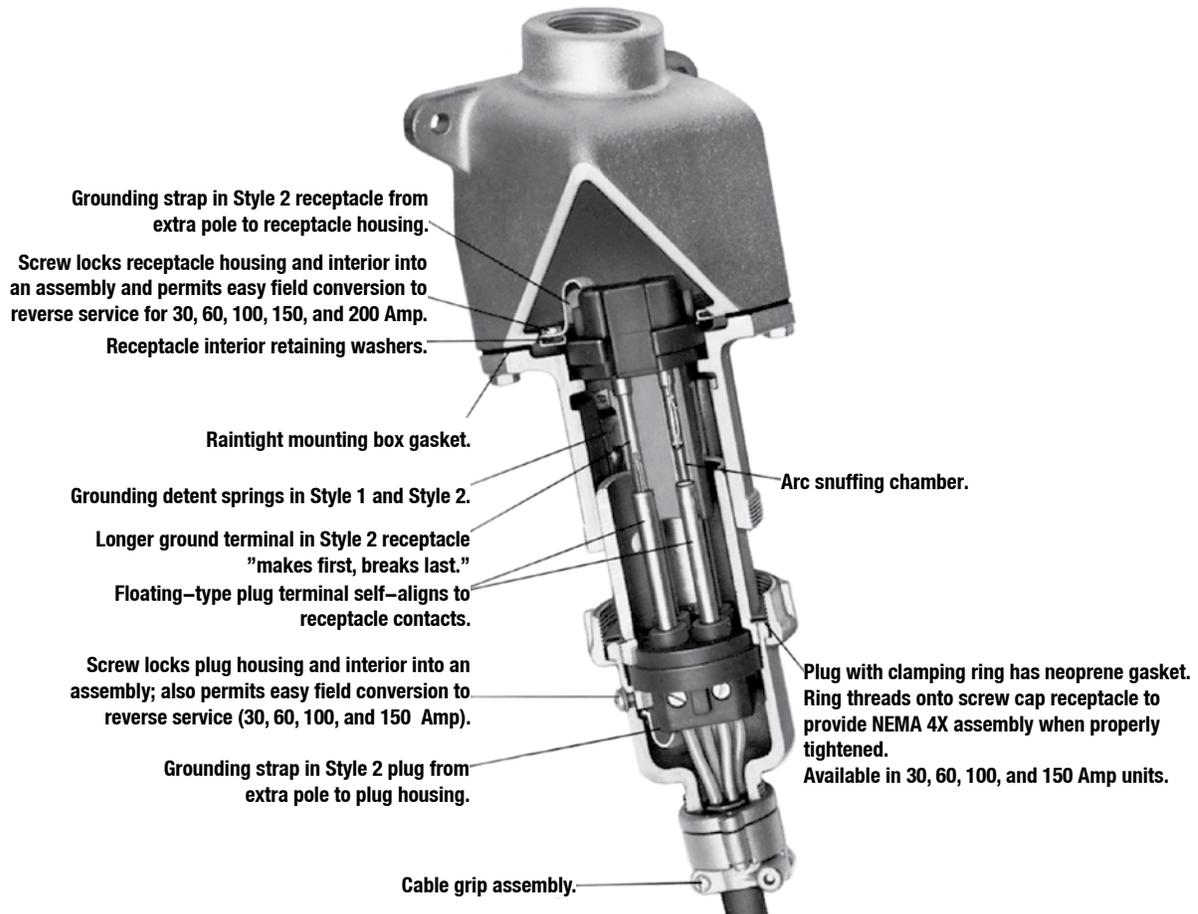
⚡ Arktite is a registered trademark of Cooper Crouse-Hinds.

⚡ Versamate is a registered trademark of Hubble Killark.

# Powerlite™ Series Pin and Sleeve Plugs, Connectors and Receptacles

NEC/CEC:  
Listed for Ordinary (Unclassified) Locations  
NEMA 3, 3R, 4, 4X

## Illustrated Features



PLUGS AND RECEPTACLES: NEC/CEC ORDINARY LOCATION

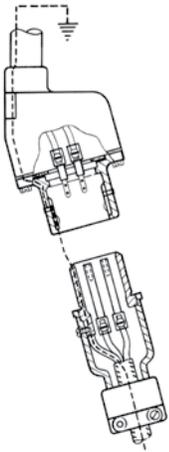
APPLETON™

# Powerlite™ Series Pin and Sleeve Plugs, Connectors and Receptacles

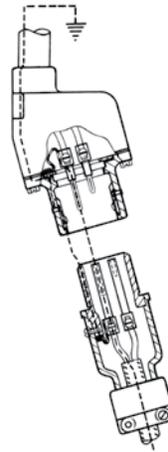
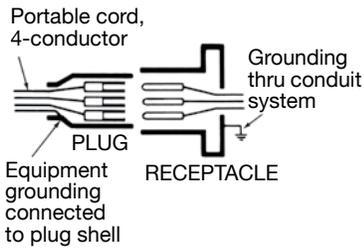
NEC/CEC:  
Listed for Ordinary (Unclassified) Locations  
NEMA 3, 3R, 4, 4X

## Illustrated Features

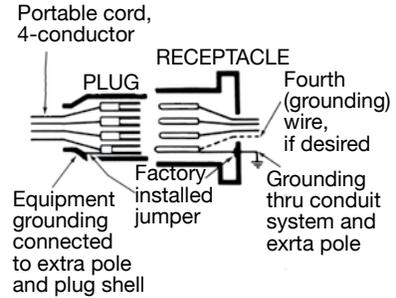
### Grounding Styles



**Style 1  
(Shell Only)**



**Style 2  
(Shell and Extra Pole)**



**Plug**—Equipment grounding conductor is wired directly to solderless lug which is connected to the plug housing with a pressure connector. All terminals are "current carrying."

**Receptacle**—Two detent spring clips engage the grounded plug housing on plug insertion-grounded plug shell makes contact with receptacle ground spring before line and load poles are engaged. Grounding path is maintained until after current-carrying contacts disengage. All terminals are "current carrying."

**Plug**—Equipment grounding conductor is not only connected to the solderless lug in the plug housing, but also to an extra grounding pole. Grounding pole has copper alloy grounding jumper strap that connects to plug housing.

**Receptacle**—Two detent spring clips engage grounded plug housing on plug insertion. Jumper from extra grounding pole is electrically connected to a screw on receptacle housing. Longer grounding pole "makes first and breaks last."

### Pin and Sleeve Design ①



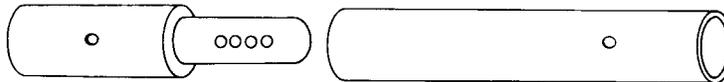
30, 60, and 100 Amp Pressure Wire Terminals.  
Solid Brass Contacts with Beryllium Copper Springs.



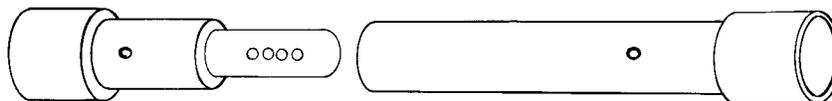
150 Amp Pressure Wire Terminals.  
Solid Copper Contacts with Beryllium Copper Springs.



200 Amp Pressure Wire Terminals. Solid Copper Split-Type Contact.



400 Amp 0.84" Solder Well Wire Terminals. Solid Copper Contacts with Four Spring-Loaded Borosilicate Bearings.



400 Amp 1.25" Solder Wire Well Terminals. Solid Copper Contacts with Four Spring-Loaded Borosilicate Bearings.

① Pins and sleeves are not sold separately. Must be purchased as entire interior replacement. Available on the Replacement Interiors pages.

# Powerlite™ 30 Amp Pin and Sleeve Plugs and Receptacles

600 Vac, 250 Vdc, 50-400 Hz

Pressure Wire Terminals – Wire Recess Diameter: .281". Wire Size Range: #10—#6 Building; #10—#8 Extra Flex.

**NEC/CEC:**

Listed for Ordinary (Unclassified) Locations  
NEMA 3, 3R, 4, 4X



Grounding Style	Wire/Pole	Receptacle with AEE Mounting Box ①	Hub Size (Inches)	Receptacle Only ③	Metallic Clamping Ring Plug ②	Nonmetallic Clamping Ring Plug ②④	Plug Cable Dia. (Inches)
Style 1 (Shell Only)	2W, 2P	ADRE3022-50	1/2	ADR3022	ACP3022BC	—	.500 to 1.250
		ADRE3022-75	3/4				
	3W, 3P	ADRE3033-75	3/4	ADR3033	ACP3033BC	—	.500 to 1.250
		ADRE3033-100	1				
4W, 4P	ADRE3044-75	3/4	ADR3044	ACP3044BC	—	.500 to 1.250	
	ADRE3044-100	1					
Style 2 (Shell and Extra Pole)	2W, 3P	ADRE3023-75	3/4	ADR3023	ACP3023BC	—	.500 to 1.250
		ADRE3023-100	1				
	3W, 4P	ADRE3034-75	3/4	ADR3034	ACP3034BC	NMACP3034BC	.500 to 1.250
		ADRE3034-100	1				

Receptacles are provided with spring door and screw cover.  
For Reverse Service, add suffix **-RS** to Catalog Number.  
For Special Polarization, add suffix **-P4** to Catalog Number.

## Horsepower Ratings for Emergency Disconnect Under Load

Plug may be withdrawn in an emergency if within these maximum HP ratings. Not for normal starting and stopping.

Phase Motor	Wire/Pole	Motor Horsepower			
		120 Vac	240 Vac	480 Vac	600 Vac
1-Phase	2W, 2P or 2W, 3P	2HP	3HP	10HP	10HP
3-Phase	3W, 3P; 3W, 4P; or 4W, 4P	3HP	7-1/2HP	15HP	20HP

① For additional mounting boxes, see Aluminum Mounting Boxes.

② Plug and receptacle combination is NEMA 4X rated when clamping ring is fully tightened on receptacle.

③ Receptacle is NEMA 4X rated when screw cover is fully engaged when the receptacle is not in use.

④ Reverse service and special polarization options are not available on nonmetallic plugs.