

Powertite™ Series Pin and Sleeve Plugs, Connectors and Receptacles

NEC/CEC:

Listed for Ordinary (Unclassified) Locations
NEMA 3, 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, SCR/VFD houses, and similar equipment.
- Ideal for use in "ship to shore" and backup/temporary power 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 Plugs may be withdrawn in an emergency under full rated loads without separate disconnect switches (400 Amp plug is for disconnecting use only; not for current rupturing).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 Powertite™ 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 ①: 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



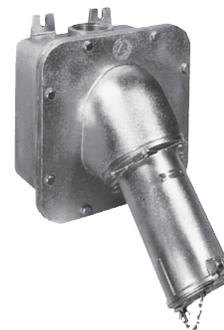
30 and 60 Amp



100 and 150 Amp



200 Amp



400 Amp

Options

- See Illustrated Options section for details.
- Standard Service, Reverse Service (Generator Application), and Special Polarization.
- Lock Collar accessory to secure plug and connector connections from unauthorized intentional disconnection.
- NEMA 4X Cap accessory for plugs to protect insulation and plug contacts from moisture, dirt, dust and corrosion when not in use.

NEC/CEC Certifications and Compliances

- UL Standard: UL 1682, UL 1686, UL 50E
- UL Listed: E145916, E145917
- cULus Listed: E145917 (200 Amp)
- CSA Standard: C22.2 No. 182.1-13
- 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 Appleton Powertite series 30 through 100 Amps is UL Classified for use in specific combinations with Crouse-Hinds Arktite®. Killark Versamate® series UL Classified for use with Appleton Powertite series 30 through 200 Amps.

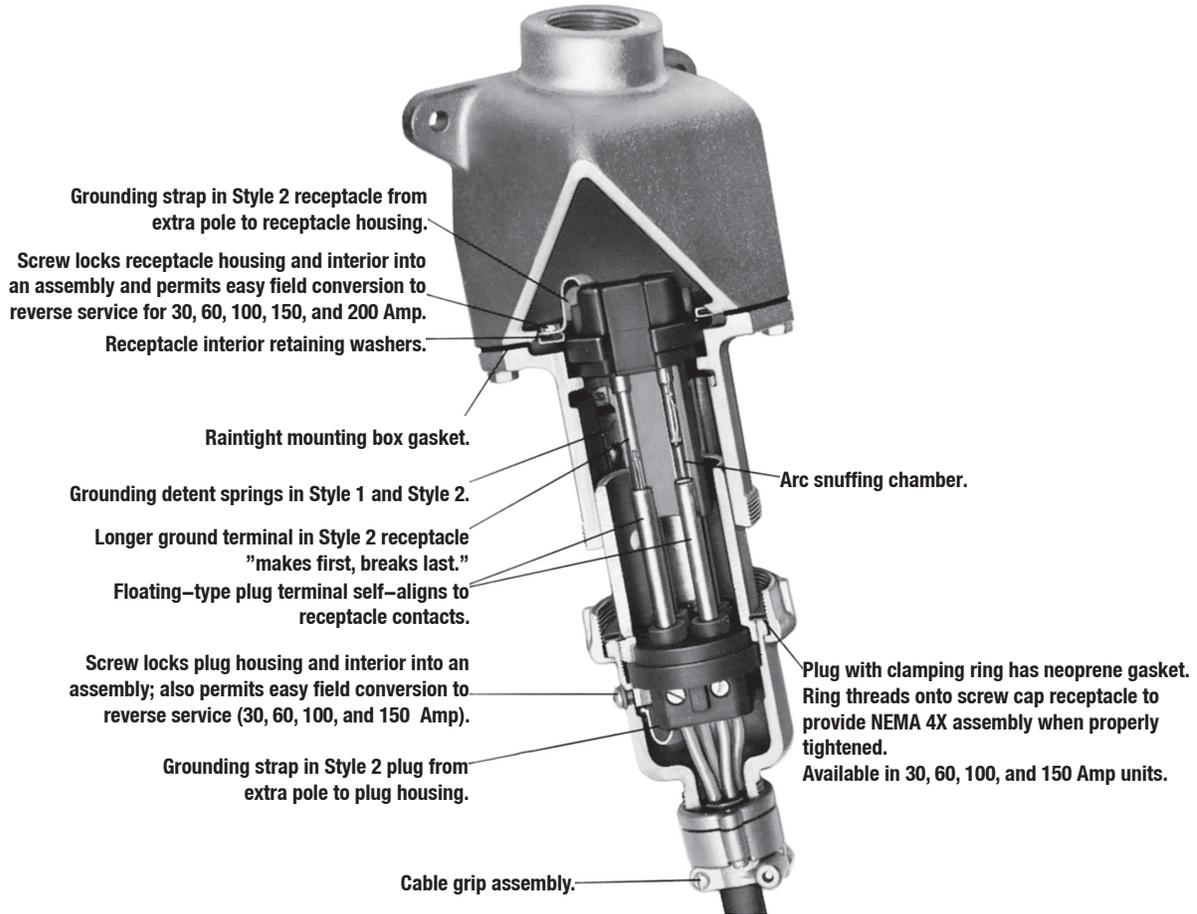
† Arktite is a registered trademark of Cooper Crouse-Hinds.

‡ Versamate is a registered trademark of Hubble Killark.

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Illustrated Features



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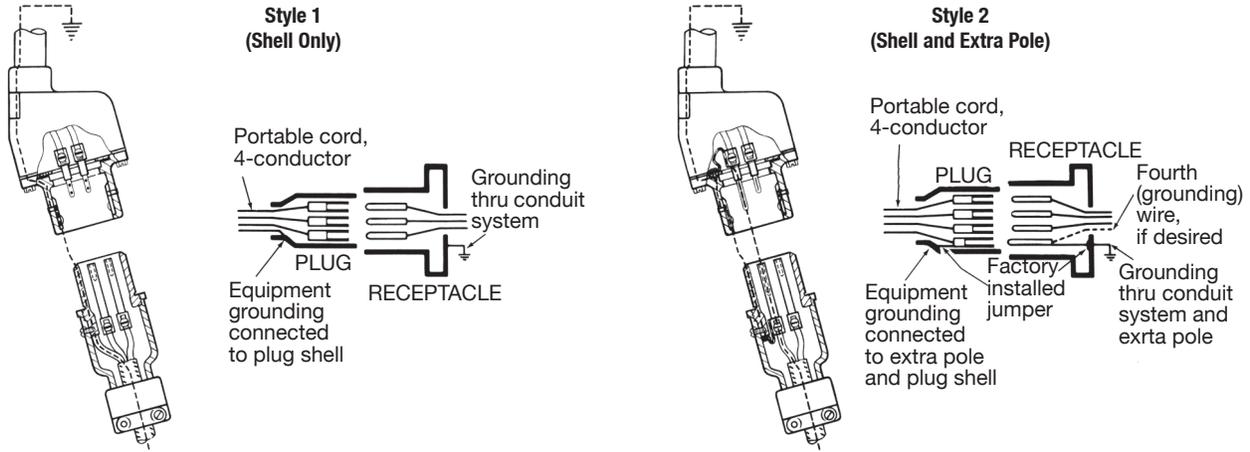
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Illustrated Features

Grounding Styles



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."

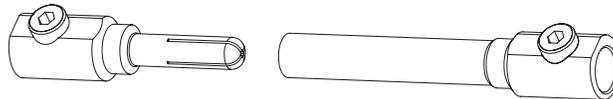
Pin and Sleeve Design ①



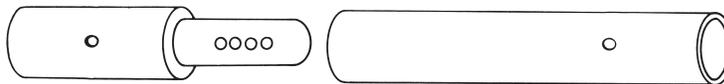
30, 60, and 100 Amp Pressure Wire Terminals.
Solid Brass Contacts with Beryllium Copper Springs.



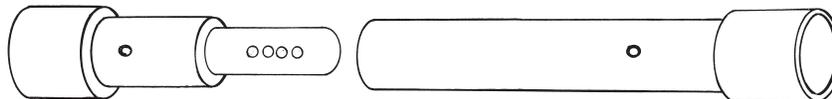
150 Amp Pressure Wire Terminals.
Solid Copper Contacts with Beryllium Copper Springs.



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.

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Illustrated Features

Spring Door and Screw Cap

30, 60, 100, and 150 Amp spring door and screw cap receptacles are threaded to accept clamping ring ACP plug. The ring threads onto the receptacle to form a raintight assembly with plug in use-and also to prevent plug fallout. When the plug is withdrawn, the gasketed spring door cover closes tightly against receptacle opening automatically, providing weatherproof protection. Spring door has stainless steel spring and shaft.



Spring Door Cover

30, 60, 100, and 150 Amp units may be located at any position in a 360° circle by adjusting a setscrew. Set screw also allows complete removal of cover. Spring door available on 200 Amp units.
NOTE: Spring Door cover in open positions for illustration only.



ACP Plugs

Supplied with bushings to accommodate a wide variety of cable diameters.



Reversible Cable Clamps

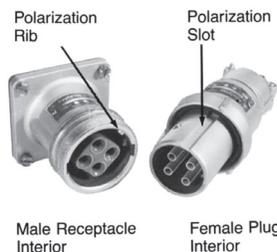
Permits wide cable range (just loosen screws and flip over). Each position accommodates one of two bushings. Convenient in installations having different cable sizes.



Illustrated Options

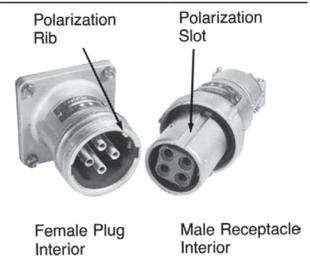
Standard Service

Energized receptacle has recessed male contacts to reduce danger of accidental touching. Plug has female contacts that are energized only upon insertion in receptacle.



Reverse Service (Generator Application)

Useful where a "hot" plug feeds a dead receptacle. Reverse service is often used for generator applications where the receptacle houses a dead plug interior. Plug houses an energized receptacle interior, which has recessed male contacts to reduce danger of accidental touching. 30, 60, 100, 150, and 200 Amp units can be easily converted to reverse service in the field when matching plug and receptacle are ordered. 400 Amp unit is only available as a factory assembled item at extra cost. Add suffix **-RS** to receptacle or connector.



Special Polarization

Special polarization is available on 30, 60, 100, 200, and 400 Amp units. Prevents plug insertion in a receptacle or connector wired for a different voltage. In installations where there are different line voltages, the special polarization option is desirable. This allows only plugs and receptacles wired for the same line voltage to be mated together. The receptacle or connector interior is positioned 22-1/2°, relative to the polarization rivet, to the right (as specified) of standard, and plug is polarized to correspond. Add suffix **-P4** to the standard or reverse service plug, receptacle or connector.

NEMA 4X Cap

Protects plug insulation and contacts from moisture, dirt, dust and corrosion when not in use. See product page for item number information.



Lock Collar

Secures Plug and Connector connections to prevent intentional disconnection by unauthorized personnel. For use with 60 and 100 Amp Series Plugs and Connectors. Collar clamps around fully tightened Plug and Connector and secured via a padlock. Order item PTL60100.



PLUGS AND RECEPTACLES: NEC/CEC ORDINARY LOCATION

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Powerlite™ 30, 60, 100, and 150 Amp Replacement Parts

600 Vac, 250 Vdc, 50-400 Hz

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	Description	Catalog Number
ACP Plug Clamping Ring — Includes Gasket		
	30 Amp — 2-, 3- and 4-Pole	CLMPR30
	30 Amp — 3-Wire, 4-Pole	30CRING ①
	60 Amp — 2- and 3-Pole	CLMPR23P60
	60 Amp — 4-Pole	CLMPR4P60
	100 Amp — 2- and 3-Pole	CLMPR23P100
	100 and 150 Amp — 4-Pole	CLMPR4P100
Receptacle Spring Cover — Includes Gasket		
	30 Amp — 2-, 3- and 4-Pole	PTSC30
	60 Amp — 2- and 3-Pole	PTSC60A
	60 Amp — 4-Pole	PTSC60B
	100 Amp — 2- and 3-Pole	PTSC100A
	100 and 150 Amp — 4-Pole	PTSC100B
Receptacle Threaded Cover — Includes Gasket and Chain		
	30 Amp — 2, 3, and 4-Pole	PTTC30
	30 Amp — 3 Wire, 4-Pole	30SCAP ①
	60 Amp — 2- and 3-Pole	PTTC60A
	60 Amp — 4-Pole	PTTC60B
	100 Amp — 2- and 3-Pole	PTTC100A
	100 and 150 Amp — 4-Pole	PTTC100B
Bushing Bags and Crown Bushings for Plugs and Cable Connectors		
	30 Amp	PTGB30
	60 Amp	PTGB60
	100 Amp and 150 Amp (CD)	PTGBCD
	150 Amp (DE)	PTGBDE
Universal Plug Bushing		
	30 and 60 Amp Cable Range 0.300" – 9.00" Package of 10	PTGBUBC
Receptacle Ground Lug Kit		
	30 Amp Receptacle Ground Lug Kit. Wire Well ID 0.272"	PTRGL30
	60 Amp Receptacle Ground Lug Kit. Wire Well ID 0.312"	PTRGL60
	100 Amp Receptacle Ground Lug Kit. Wire Well ID 0.389" ②	PTRGL100

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① For use with 30 Amp Powerlite™ plugs and WSR/WSRD/JBR/EBR/DBR receptacles.
② Ground lug is cast into the housing after 09/2008.