

Powertite® Series Pin and Sleeve Plugs, Connectors and Receptacles

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.
- Suitable for use from -40 °F/-40 °C to 225 °F/107 °C.
- 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, 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 Plugs may be withdrawn in an emergency under full rated loads without separate disconnect switches (400 Amp plug is for disconnecting use only; not for current rupturing).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 explosion-proof interlocking receptacles.
- Controlled length contacts ensure that ground makes first and breaks last for added safety.

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

Options

- See Illustrated Options

Certifications and Compliances

- UL Standard: UL 1682, UL 1686, 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*.



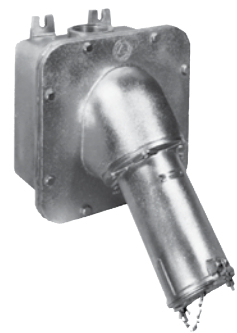
30 and 60 Amp



100 and 150 Amp



200 Amp

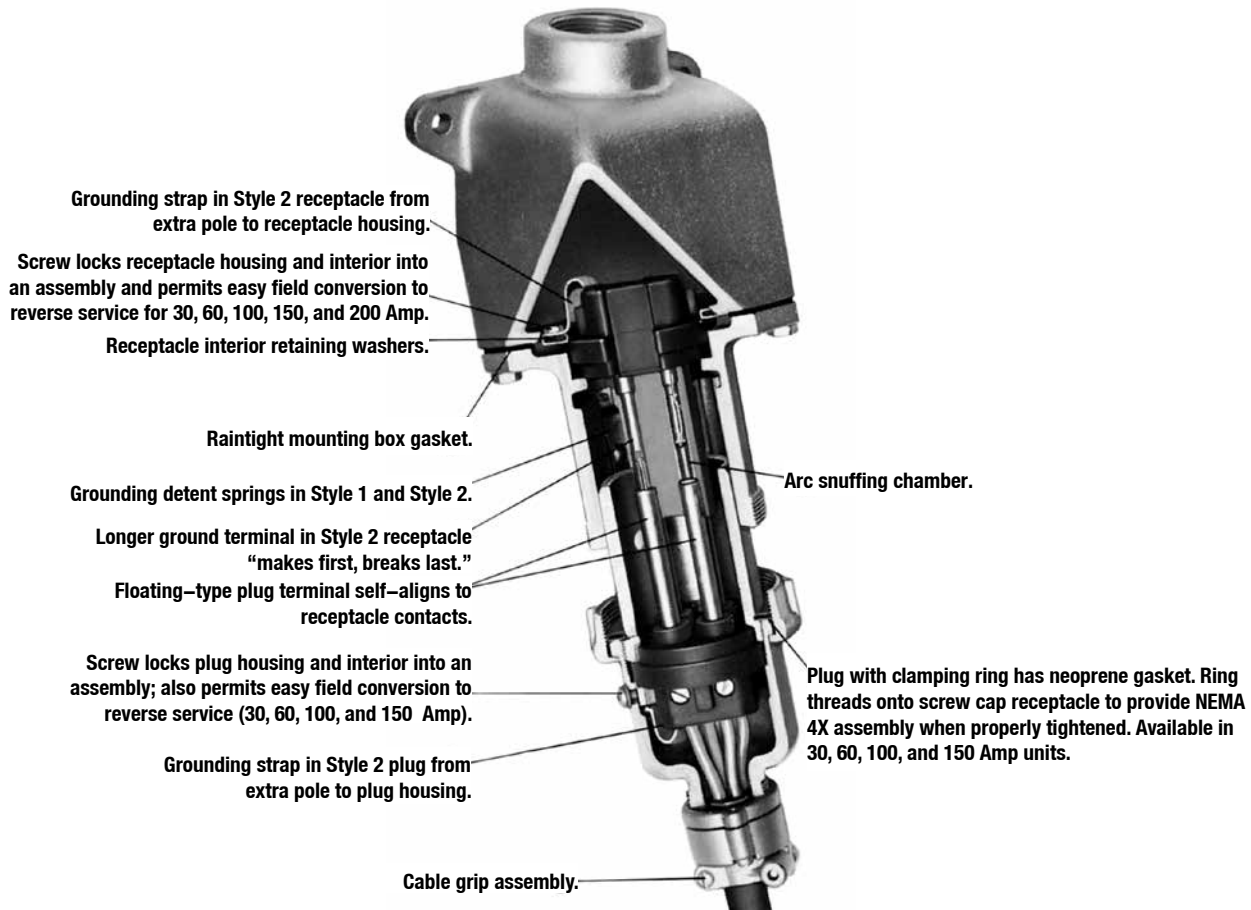


400 Amp

Classified by UL and Certified by CSA for use in specific combinations with Crouse-Hinds Arktite. Arktite is a registered trademark of Cooper Crouse-Hinds.

Powertite® Series Pin and Sleeve Plugs, Connectors and Receptacles

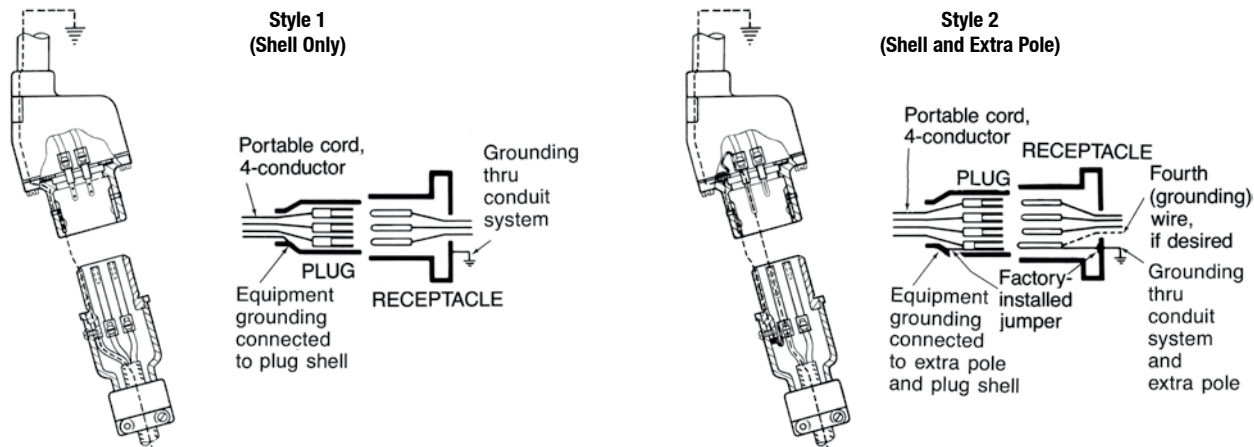
Illustrated Features



Powertite® Series Pin and Sleeve Plugs, Connectors and Receptacles

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 †



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



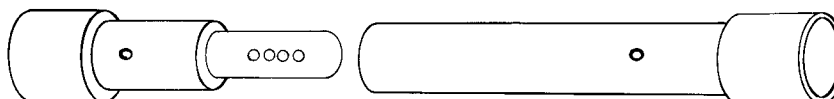
150 Amp Pressure Wire Terminals.
Solid Copper Contacts with Beryllium Copper Springs.



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.

† Pins and sleeves are not sold separately. Available on the Replacement Interiors pages.

Powertite® Series Pin and Sleeve Plugs, Connectors and Receptacles

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. 30 Amp plug clamp used in first position with smallest inside diameter bushing provides positive grip on cables as small as 0.390 inches, such as those that are used in oil rig installations.



Reversible Cable Clamps

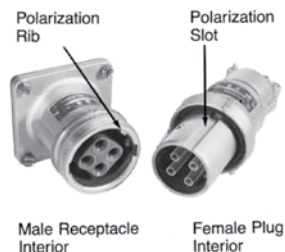
Permits wide cable range (just loosen screws and flip over). Each position accommodates one of two bushings. Convenient in installations having different cable sizes.



Illustrated Options

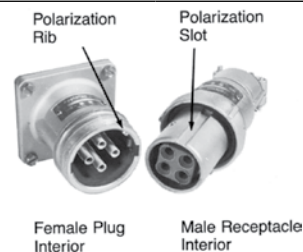
Standard Service

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

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.

Powertite® Series Pin and Sleeve Plugs, Connectors and Receptacles

Features at a Glance

Amp	Receptacle Types				Brass with Beryllium Copper Springs	Copper with Borosilicate Bearings	Contacts		Brass Ground Contacts	Reverse Service	
	Grounding Styles	Weatherproof Spring Door	NEMA 4X Screw Cap	Raintight Clamp Cover			Split-type Copper Contacts			In Field	Factory Only
30	1 and 2	X	X		X				Style 2	X	
60	1 and 2	X	X		X				Style 2	X	
100	1 and 2	X	X		X				Style 2	X	
150	2	X	X		X †				Style 2	X	
200	1 and 2	X ▼		X ▼				X	Style 2	X ‡	
400	1 and 2					X			Style 2		X

Application Chart

Grounding Style	Wire/Pole	Single Phase		Grounding Style	Wire/Pole	Three Phase	
		With Neutral	Without Neutral			With Neutral	Without Neutral
Style 1 (Shell Only)	2W, 2P	L1+N+G	L1+L2+G	Style 1 (Shell Only)	2W, 2P		
	3W, 3P	L1+L2+N+G			3W, 3P		L1+L2+L3+G
	4W, 4P				4W, 4P	L1+L2+L3+N+G	
Style 2 (Shell and Extra Pole)	2W, 3P	L1+N+G	L1+L2+G	Style 2 (Shell and Extra Pole)	2W, 3P		
	3W, 4P	L1+L2+N+G			3W, 4P		L1+L2+L3+G

Powertite® Horsepower Ratings Plug may be withdrawn in an emergency if within these maximum HP ratings. Not for normal starting/stopping.

Phase Motor	Amps	Motor Horsepower			
		115 Vac	230 Vac	480 Vac	600 Vac
For Emergency Disconnect Only					
3-Phase 3W, 3P; 3W, 4P; or 4W, 4P	30	3	7-1/2	15	20
	60	7-1/2	15	30	30
	100	10	20	40	40
	150	Do Not Disconnect Under Load			
	200	20	40	50	50

Phase Motor	Amps	Motor Horsepower			
		115 Vac	230 Vac	480 Vac	600 Vac
1-Phase 2W, 2P or 2W, 3P	30	2	3	10	10
	60	3	10	20	20
	100	7-1/2	15	30	30
	200	15	30	40	40

Range of Wire Sizes Accommodated in Powertite® Plug and Receptacle Terminals

140 °F/60 °C minimum wire ratings.

30, 60, 100, and 150 Amp				200 Amp			400 Amp		
Amps	Wire Recess Dia. (Inches)	Wire Range Building	Wire Range Extra Flex.	Wire Recess Dia. (Inches)	Conductor Size	Type Conductor	Solder Recess Dia. (Inches)	Conductor Size	Type Conductor
30	.281	#10 – #6	#10 – #8	0.687	250	General Wire	0.84	500 MCM	General Wire
60	.312	#6 – #2	#6 – #4		4/0	General Wire		400 MCM	Flex. Cable
100	.391	#4 – #1	#4 – #2		4/0	Flex. Cable		400 MCM	Extra Flex.
150	.525	#2 – 2/0	#2 – 2/0		3/0	Flex. Cable	1.25	1000 MCM	General wire
					3/0	Extra Flex.		900 MCM	General Wire
					2/0	Flex. Cable		800 MCM	Extra Flex.

▼ NEMA 4X.

‡ For receptacle only.

† Copper with beryllium copper springs.

Powertite® 30, 60, 100, and 150 Amp Replacement Parts

600 Vac, 250 Vdc, 50-400 Hz

	Description	Catalog Number
ACP Plug Clamping Ring — Includes Gasket		
	30 Amp — 2-, 3- and 4-Pole	CLMPR30
	30 Amp — 3-Wire, 4-Pole	30CRING ‡
	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 (Unthreaded)	30SCAP ‡
	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" *	PTRGL100

‡ For use with 30 Amp Powertite plugs and WSR/WSRD/JBR/EBR/DBR receptacles.

* Ground lug is cast into the housing after 09/2008.

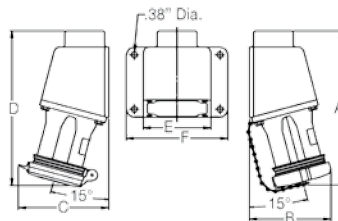
Powertite® 30, 60, 100, and 150 Amp Mounted Receptacle Dimensions

600 Vac, 250 Vdc, 50-400 Hz

Plugs and Receptacles

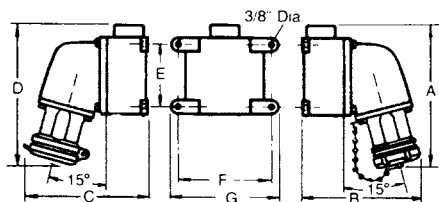
PLUGS AND RECEPTACLES: ORDINARY LOCATION

Receptacle Mounted on AEE Box



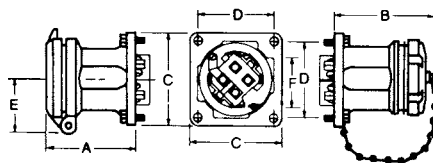
Dimensions in Inches/Millimeters						
Amp	A	B	C	D	E	F
30	6.88/174.7	3.45/89.6	3.95/100.3	7.13/181.1	4.25/107.9	5.00/127.0
60	9.75/247.6	4.73/120.1	4.98/126.4	10.00/254.0	5.38/136.6	6.38/162.0

Receptacle Mounted on AJA Box



Dimensions in Inches/Millimeters							
Amp	A	B	C	D	E	F	G
60	9.63/244.6	8.00/203.2	8.81/223.7	10.69/271.5	4.88/123.9	6.88/174.7	7.88/200.15
100 and 150	11.44/290.5	9.00/228.6	9.19/233.4	11.82/300.2	4.88/123.9	6.88/174.7	7.88/200.15

ADR Receptacle

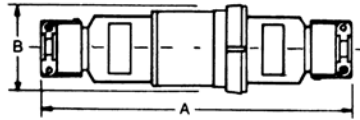


Dimensions in Inches/Millimeters							
Amp	No. Poles	A	B	C	D	E	F
30	2,3,4	2.80/71.1	3.19/81.0	3.38/85.8	2.72/69.0	2.06/52.3	2.75/69.8
60	2,3	4.88/123.9	4.63/117.6	4.25/107.9	3.50/88.9	2.31/58.6	3.10/78.7
60	4	4.88/123.9	4.63/117.6	4.25/107.9	3.50/88.9	2.44/61.9	3.35/85.0
100	2,3	5.10/129.5	5.50/139.7	4.25/107.9	3.50/88.9	2.44/61.9	3.40/86.3
100 and 150	4	5.10/129.5	5.50/139.7	4.25/107.9	3.50/88.9	2.56/65.0	3.60/91.4

Powertite® 30, 60, 100, and 150 Amp Connector and Plug Dimensions

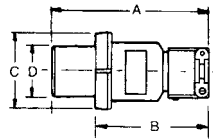
600 Vac, 250 Vdc, 50-400 Hz

ARC Cable Connector



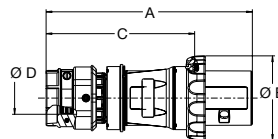
Amp	Dimensions in Inches/Millimeters	
	A	B
30	10.50/266.7	3.13/79.5
60	13.25/336.5	3.81/96.7
100	16.00/406.4	4.25/107.9

ACP Plug



Amp	No. Poles	Dimensions in Inches/Millimeters			
		A	B	C	D
30	2,3,4	6.00/152.4	4.75/120.6	3.13/79.5	1.86/47.2
60	2,3	7.81/198.3	4.94/125.4	3.50/88.9	2.23/56.6
60	4	7.81/198.3	4.94/125.4	3.81/96.7	2.55/64.7
100	2,3	10.50/266.7	6.63/168.4	4.00/101.6	2.47/62.7
100	4	10.50/266.7	6.63/168.4	4.25/107.9	2.72/69.0
150 (CD)	4	10.50/266.7	6.63/168.4	4.25/107.9	2.72/69.0
150 (DE)	4	13.40/340.3	9.73/247.1	4.25/107.9	2.72/69.0

NMACP Plug



Amp	No. Poles	Dimensions in Inches/Millimeters			
		A	B	C	D Min — Max
30	4	7.36/187.0	2.48/63.0	5.71/145.0	0.43/11.0 — 0.97/24.5
60	4	9.65/245.0	3.94/100.0	6.85/174.0	0.57/14.5 — 1.42/36.0

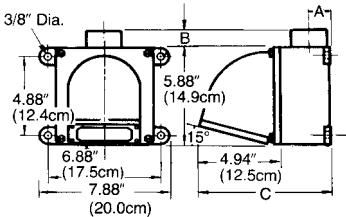
Powertite® 30, 60, 100, and 150 Amp Mounting Box Dimensions

600 Vac, 250 Vdc, 50-400 Hz

Plugs and Receptacles

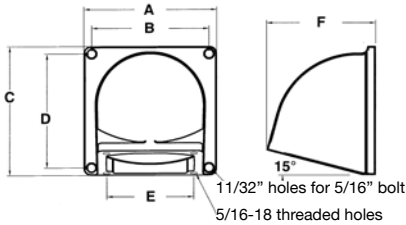
PLUGS AND RECEPTACLES: ORDINARY LOCATION

AJA Mounting Boxes



		Dimensions in Inches/Millimeters		
Amp	Hub Size (Inches)	A	B †	C
60, 100 and 150	1	1.13/28.7	0.56/14.2	8.0/203.2
	1-1/4	1.13/28.7	0.56/14.2	8.0/203.2
	1-1/2	1.50/38.1	0.56/14.2	8.0/203.2
	2	1.50/38.1	0.56/14.2	8.0/203.2

AJA100 Angle Adapter



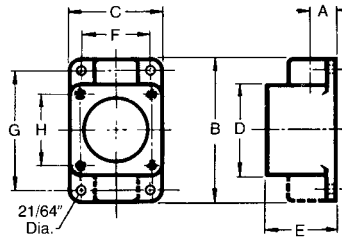
Dimensions in Inches/Millimeters					
A	B	C	D	E	F
5.87/149.0	5.18/131.5	5.87/149.0	5.18/131.5	3.50/88.9	4.81/122.1

† AJA has two hubs. Close-up plug furnished in bottom recessed hub.

Powertite® 30, 60, 100, and 150 Amp Mounting Box Dimensions

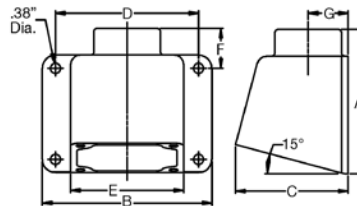
600 Vac, 250 Vdc, 50-400 Hz

AERA *, AERC ‡ and AERH Mounting Boxes



Amp	Hub Size (Inches)	Dimensions in Inches/Millimeters								
		A *	B ‡	C	D	E	F	G	H	J
30	1/2	0.69/17.5	5.31/134.8	3.38/85.8	3.38/85.8	2.50/63.5	2.63/66.8	4.56/115.8	2.72/69.0	0.94/23.8
30	3/4	0.75/19.0	5.31/134.8	3.38/85.8	3.38/85.8	2.50/63.5	2.63/66.8	4.56/115.8	2.72/69.0	0.94/23.8
30	1	0.81/20.5	5.31/134.8	3.38/85.8	3.38/8.6	2.50/63.5	2.63/66.8	4.56/115.8	2.72/69.0	0.94/23.8
60	1	0.81/20.5	6.50/165.1	4.25/107.9	4.25/107.9	3.13/79.5	3.50/88.9	5.88/149.3	3.50/88.9	1.38/35.0
60	1-1/4	0.94/23.8	6.50/165.1	4.25/107.9	4.25/107.9	3.13/79.5	3.50/88.9	5.88/149.3	3.50/88.9	1.38/35.0
60	1-1/2	1.00/25.4	6.50/165.1	4.25/107.9	4.25/107.9	3.13/79.5	3.50/88.9	5.88/149.3	3.50/88.9	1.38/35.0

AEE Mounting Box



Amp	Hub Size (Inches)	Dimensions in Inches/Millimeters						
		A	B	C	D	E	F	G
30	1/2, 3/4, 1	4.12/104.6	5.00/127.0	3.33/84.5	4.25/107.9	3.38/85.8	1.18/29.9	1.10/27.9
60	1, 1-1/4, 1-1/2	5.41/137.4	6.38/162.0	4.23/107.4	5.38/136.6	4.25/107.9	1.50/38.1	1.50/38.1

* Dimension "A" for AERA only.
‡ Dimension "B" for AERC only.

Powertite® 200 Amp Pin and Sleeve Spring Door Plugs and Receptacles

600 Vac, 250 Vdc, 50-400 Hz.

Wire Recess Diameter: .687". Wire Size Range: 250 MCM-#2/0. Pressure Wire Terminals ★.

NEMA 3, 3R, 4, 4X



Grounding Style	Wire/Pole	Receptacle with AJA Mounting Box †	Hub Size (Inches)	Receptacle Only †	Plug Only	Cable Dia. (Inches)
Style 1 (Shell Only)	3W, 3P	ADJA20033-150	1-1/2	ADR20033	AP20033CD	.875 to 1.906
		ADJA20033-200	2		AP20033E	1.875 to 2.500
		ADJA20033-250	2-1/2			
	4W, 4P	ADJA20044-200	2	ADR20044	AP20044CD	.875 to 1.906
		ADJA20044-250	2-1/2		AP20044E	1.875 to 2.500
Style 2 (Shell and Extra Pole)	2W, 3P	ADJA20023-150	1-1/2	ADR20023	AP20023CD	.875 to 1.906
		ADJA20023-200	2		AP20023E	1.875 to 2.500
		ADJA20023-250	2-1/2			
	3W, 4P	ADJA20034-150	1-1/2	ADR20034	AP20034CD	.875 to 1.906
		ADJA20034-200	2		AP20034E	1.875 to 2.500
		ADJA20034-250	2-1/2			

For Reverse Service add suffix **-RS** to Catalog Number.

For Special Polarization, add suffix **-P4** to Catalog Number.

Maximum Conductor Size

Wire Recess Dia. (Inches)	Conductor Size	Max. Strand	Type Conductor
0.687	250 MCM	37	General Wire
	4/0	19	General Wire
	4/0	259	Flexible Cable
	3/0	427	Extra Flexible Cable
	2/0	259	Flexible Cable
	2/0	259	Flexible Cable

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.

Motor Phase	Wire/Pole	Motor Horsepower			
		120 Vac	240 Vac	480 Vac	600 Vac
1-Phase	2W, 3P	15HP	30HP	40HP	40HP
3-Phase	3W, 3P; 3W, 4P; or 4W, 4P	20HP	40HP	50HP	50HP

★ Adapters for #4-#1 wire available, see Powertite® 200 and 400 Amp Replacement Parts.

† For additional mounting boxes, see Aluminum Mounting Boxes.

† Receptacle meets NEMA 3R with spring door closed and NEMA 3, 3R, 4, 4X with plug fully inserted and wing nuts fully tightened or cover closed with wing nuts fully tightened.

Powertite® 200 Amp Pin and Sleeve Clamp Cover Plugs, Connectors and Receptacles

600 Vac, 250 Vdc, 50-400 Hz.

Wire Recess Diameter: .687". Wire Size Range: 250 MCM-#2/0. Pressure Wire Terminals ★.

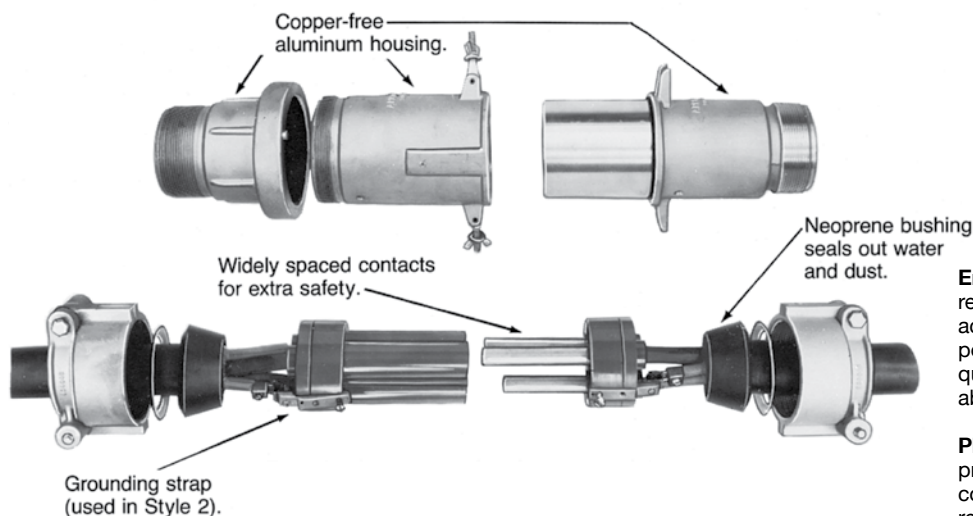
NEMA 3, 3R, 4, 4X



Grounding Style	Wire/Pole	Receptacle with AJA Mounting Box †	Hub Size (Inches)	Receptacle Only †	Connector Body Only	Plug Only ‡	Cable Dia. (Inches)
Style 1 (Shell Only)	3W, 3P	AJA20033-150	1-1/2	AR20033	ARC20033CD	AP20033CD	.875 to 1.906
		AJA20033-200	2		ARC20033E	AP20033E	1.875 to 2.500
		AJA20033-250	2-1/2				
	4W, 4P	AJA20044-200	2	AR20044	ARC20044CD	AP20044CD	.875 to 1.906
		AJA20044-250	2-1/2		ARC20044E	AP20044E	1.875 to 2.500
Style 2 (Shell and Extra Pole)	2W, 3P	AJA20023-150	1-1/2	AR20023	ARC20023CD	AP20023CD	.875 to 1.906
		AJA20023-200	2		ARC20023E	AP20023E	1.875 to 2.500
		AJA20023-250	2-1/2				
	3W, 4P	AJA20034-150	1-1/2	AR20034	ARC20034CD	AP20034CD	.875 to 1.906
		AJA20034-200	2			AP20034E	1.875 to 2.500
		AJA20034-250	2-1/2		ARC20034E		

For Reverse Service add suffix **-RS** to Catalog Number.
For Special Polarization, add suffix **-P4** to Catalog Number.

Pin and Sleeve Design



Energized contacts deeply recessed to reduce danger of accidental touching, minimize possibility of exposed arcs. Insulator quenches arcing, and is resistant to abnormal heat and to fire.

Plug mechanical cable clamps provide strain relief at conductor connections, allow easy cable replacement.

★ Adapters for #4-#1 wire available, see Powertite® 200 and 400 Amp Replacement Parts.

◆ For additional mounting boxes, see Aluminum Mounting Boxes.

† Receptacle meets NEMA 3, 3R, 4, 4X with plug fully inserted and wing nuts fully tightened or clamp cover installed with wing nuts fully tightened.

‡ Plug and connector body combination is NEMA 4X rated when wing nuts are fully tightened on connector body.

Powertite® 400 Amp Pin and Sleeve Clamp Cover Plugs and Receptacles

600 Vac, 250 Vdc, 50-400 Hz.

Wire Recess Diameter: .84" or 1.25". Wire Size Range: 400MCM—1000MCM. Solder Wire Terminals.

Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION



Wire Recess Dia. (Inches)	Grounding Style	Wire/Pole	Receptacle with AJA Mounting Box	Hub Size (Inches) †	Receptacle Only	Plug Only	Cable Dia. (Inches)
0.84 ♦	Style 1 (Shell Only)	3W, 3P	AJA40033-400	4	AR40033	AP40033E	1.875 to 2.500
		4W, 4P	AJA40044-400		AR40044	AP40044E	1.875 to 2.500
	Style 2 (Shell and Extra Pole)	2W, 3P	AJA40023-400	4	AR40023	AP40023E	1.875 to 2.500
		3W, 4P	AJA40034-400		AR40034	AP40034E	1.875 to 2.500
1.25	Style 1 (Shell Only)	3W, 3P	AJA40133-400	4	AR40133	AP40133F	2.500 to 3.000
						AP40133G	3.000 to 3.500
	Style 2 (Shell and Extra Pole)	4W, 4P	AJA40144-400	4	AR40144	AP40144F	2.500 to 3.000
						AP40144G	3.000 to 3.500
		2W, 3P	AJA40123-400	4	AR40123	AP40123F	2.500 to 3.000
						AP40123G	3.000 to 3.500
		3W, 4P	AJA40134-400	4	AR40134	AP40134F	2.500 to 3.000
						AP40134G	3.000 to 3.500

Solder wire terminals standard on all models.

For Reverse Service add suffix **-RS** to Catalog Number.

For Special Polarization add suffix **-P4** to Catalog Number.

Note: Box can be turned for vertical or horizontal mount.

Maximum Conductor Size

400 Amp not horsepower rated. Plug is for disconnecting use only — not for current rupturing.

Solder Recess Dia. (Inches)	Conductor Size	Max. Strand	Type Conductor
0.84	500 MCM	37	General Wire
	400 MCM	259	Flexible Cable
	400 MCM	427	Extra Flexible Cable
1.25	1000 MCM	61	General Wire
	900 MCM	427	Flexible Cable
	800 MCM	703	Extra Flexible Cable

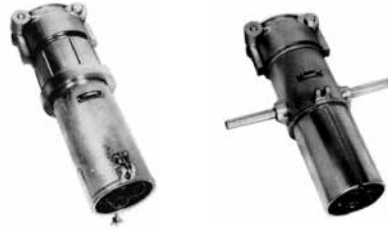
♦ Pressure terminal kits available for .84 wire recess size only to convert solder terminal to pressure terminal. See Replacement Parts page.

† Has feed-thru 4" tapped openings. Supplied with one 4" to 3" reducer and one 4" close-up plug

Powertite® 400 Amp Pin and Sleeve Connectors and Plugs

600 Vac, 250 Vdc, 50-400 Hz.

Wire Recess Diameter: .84" or 1.25". Wire Size Range: 400MCM—1000MCM. Solder Wire Terminals.



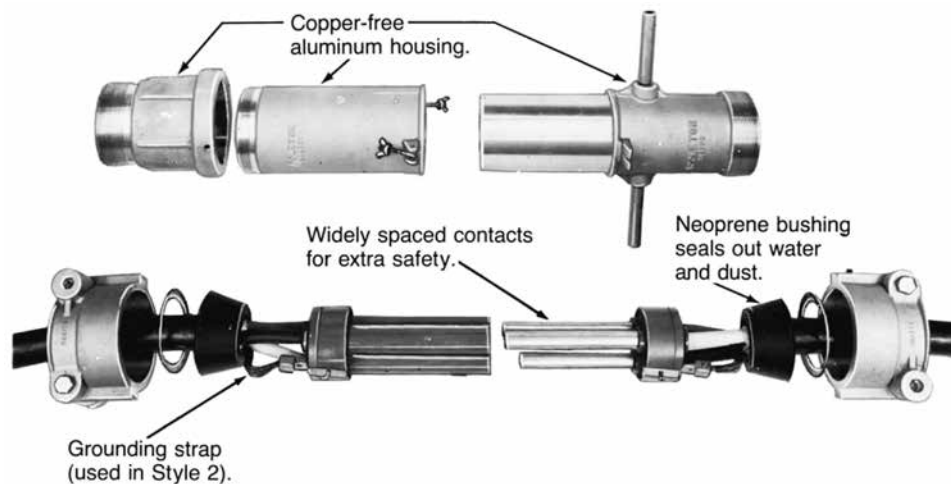
Wire Recess Dia. (Inches)	Grounding Style	Wire/Pole	Connector Body Only	Plug Only	Cable Dia. (Inches)
0.84 ♦	Style 1 (Shell Only)	3W, 3P	ARC40033E	AP40033E	1.875 to 2.500
		4W, 4P	ARC40044E	AP40044E	1.875 to 2.500
	Style 2 (Shell and Extra Pole)	2W, 3P	ARC40023E	AP40023E	1.875 to 2.500
		3W, 4P	ARC40034E	AP40034E	1.875 to 2.500
1.25	Style 1 (Shell Only)	3W, 3P	ARC40133F	AP40133F	2.500 to 3.000
			ARC40133G	AP40133G	3.000 to 3.500
		4W, 4P	ARC40144F	AP40144F	2.500 to 3.000
	Style 2 (Shell and Extra Pole)		ARC40144G	AP40144G	3.000 to 3.500
		2W, 3P	ARC40123F	AP40123F	2.500 to 3.000
			ARC40123G	AP40123G	3.000 to 3.500
		3W, 4P	ARC40134F	AP40134F	2.500 to 3.000
			ARC40134G	AP40134G	3.000 to 3.500

Solder wire terminals standard on all models.

For Reverse Service add suffix **-RS** to Catalog Number.

For Special Polarization add suffix **-P4** to Catalog Number.

Pin and Sleeve Design



Energized contacts deeply recessed to reduce danger of accidental touching, minimize possibility of exposed arcs. Insulator quenches arcing, and is resistant to abnormal heat and to fire.

Plug mechanical cable clamps provide strain relief at conductor connections, allow easy cable replacement.

♦ Pressure terminal kits available for .84 wire recess size only to convert solder terminal to pressure terminal. See Replacement Parts page.

Powertite® 200 and 400 Amp Mounting Boxes and Replacement Interiors

600 Vac, 250 Vdc, 50-400 Hz.

Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION

200 Amp Mounting Boxes and Angle Adapter



Hub Size (Inches)	AJB	AJA	AJA200 (Angle Adapter Only)
1-1/2 NPT	—	AJA520	AJA200
2 NPT	AJB620	AJA620	AJA200
2-1/2 NPT	—	AJA720	AJA200
2-3/8 (Slip Hole)	AJB238	—	—

400 Amp Mounting Box and Angle Adapter



Hub Size (Inches)	AJAC *	AJA400 (Angle Adapter Only)
4	AJAC400	AJA400

200 Amp Interiors †



Grounding Style	Wire/Pole	Receptacle	Plug	Receptacle	Plug
Style 1 (Shell Only)	3W, 3P	ARI20033	API20033	—	—
	4W, 4P	ARI20044	API20044	—	—
Style 2 (Shell and Extra Pole)	2W, 3P	—	—	ARI20023	API20023
	3W, 4P	—	—	ARI20034	API20034

400 Amp Interiors †



Wire Recess Dia. (Inches)	Grounding Style	Wire/Pole	Receptacle	Plug	Receptacle	Plug
.84	Style 1 (Shell Only)	3W, 3P	ARI40033	API40033	—	—
		4W, 4P	ARI40044	API40044	—	—
	Style 2 (Shell and Extra Pole)	2W, 3P	—	—	ARI40023	API40023
		3W, 4P	—	—	ARI40034	API40034
1.25	Style 1 (Shell Only)	3W, 3P	ARI40133	API40133	—	—
		4W, 4P	ARI40144	API40144	—	—
	Style 2 (Shell and Extra Pole)	2W, 3P	—	—	ARI40123	API40123
		3W, 4P	—	—	ARI40134	API40134

* Has feed-thru 4" tapped openings. Supplied with one 4" to 3" reducer and one 4" close-up plug.

† Pins and sleeves are not sold separately.

Powertite® 200 and 400 Amp Replacement Parts

600 Vac, 250 Vdc, 50-400 Hz.

	Description	Catalog Number
Receptacle Covers		
	Spring Cover — Includes Gasket	
	200 Amp — 2- and 3-Pole	PTLC200A
	200 Amp — 4-Pole	PTLC200B
	Clamping Cover — Includes Gasket and Chain	
	200 Amp — 2- and 3-Pole	PTBC200A
	200 Amp — 4-Pole	PTBC200B
	400 Amp — 2- and 3-Pole	PTBC400A
	400 Amp — 4-Pole	PTBC400B
Bushing Bags for Plugs and Cable Connectors		
	200 Amp - Suffix CD	PTGBCD
	200 Amp - Suffix E	PTGB200E
	400 Amp - Suffix E	PTGB400E
	400 Amp - Suffix F	PTGB400F
	400 Amp - Suffix G	PTGB400G
Receptacle Lockout Device		
	Lockout, 200 Amp 3- and 4-Pole Models	PTLOCK2004
	Lockout, 400 Amp 4-Pole Models	PTLOCK4004
Optional Accessory for Wire Size #1 to #4		
<i>Check National Electrical Code for proper wire size and application</i>		
	200 Amp, 3-Pole Wire Adapter Kit	PTK200WA3
	200 Amp, 4-Pole Wire Adapter Kit	PTK200WA4
400 Amp Pressure Terminal Kits		
	Use with 400-500 MCM Wire	
	0.84" I.D. Wire Recess	
	3 Adapters	PTK84-3P
	4 Adapters	PTK84-4P
	Use With 750 MCM General Wire or 500-777 MCM Flexible Wire	
	1.18" I.D. Wire Recess	
	3 Adapters	PTK750-3P
	4 Adapters	PTK750-4P

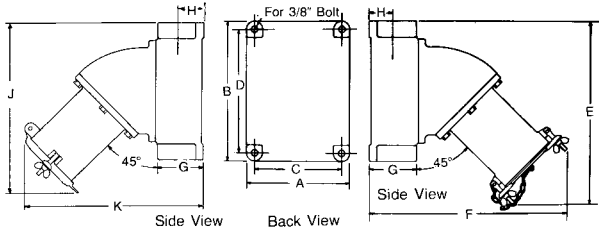
Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION

Powertite® 200 Amp Mounted Receptacle Dimensions

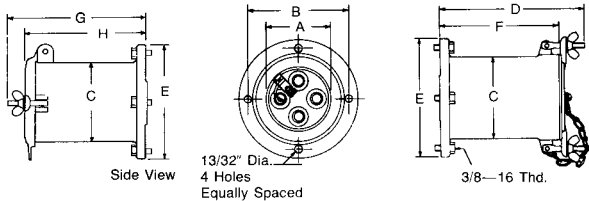
600 Vac, 250 Vdc, 50-400 Hz.

Receptacle Mounted on AJA and AJAC Boxes



Dimensions in Inches/Millimeters									
A	B	C	D	E	F	G	H	J	K
8.00/203.2	10.75/273.0	6.75/171.4	9.50/241.3	14.00/355.6	15.25/387.3	3.75/95.2	1.88/47.7	13.50/342.9	14.25/361.9

Receptacle



Dimensions in Inches/Millimeters								
No. Poles	A	B	C	D	E	F	G	H
3	3.25/82.5	5.63/143.0	4.19/10.46	8.00/203.2	6.63/168.4	6.56/166.6	6.70/170.1	7.05/179.0
4	3.63/92.2	5.63/143.0	4.56/115.8	8.00/203.2	6.63/168.4	6.56/166.6	6.70/170.1	7.05/179.0

Powertite® Series Pin and Sleeve Plugs, Connectors and Receptacles

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.
- Suitable for use from -40 °F/-40 °C to 225 °F/107 °C.
- 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, 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 explosion-proof interlocking receptacles.
- Controlled length contacts ensure that ground makes first and breaks last for added safety.

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

Options

- See Illustrated Options

Certifications and Compliances

- UL Standard: UL 1682, UL 1686, 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*.



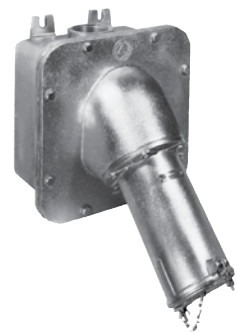
30 and 60 Amp



100 and 150 Amp



200 Amp

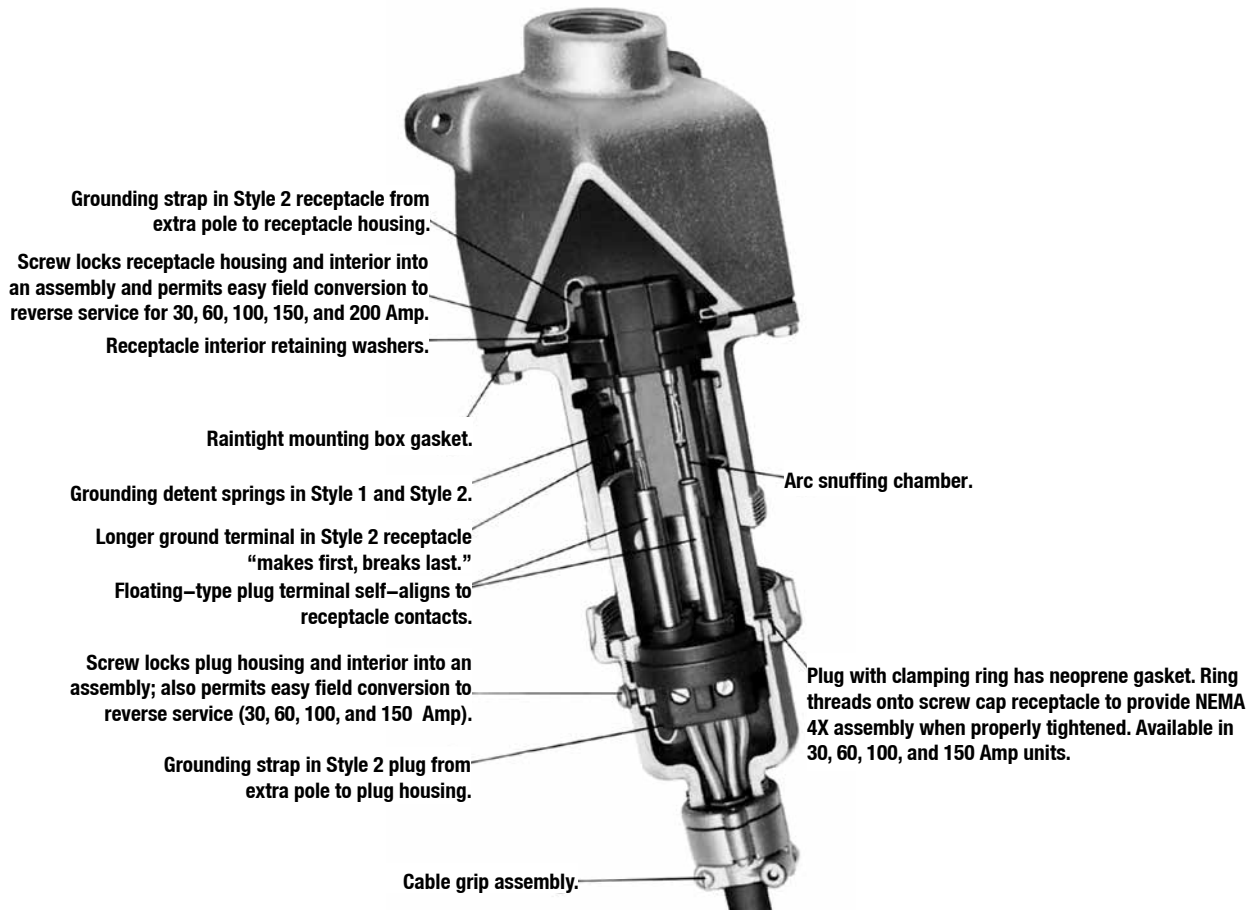


400 Amp

Classified by UL and Certified by CSA for use in specific combinations with Crouse-Hinds Arktite. Arktite is a registered trademark of Cooper Crouse-Hinds.

Powertite® Series Pin and Sleeve Plugs, Connectors and Receptacles

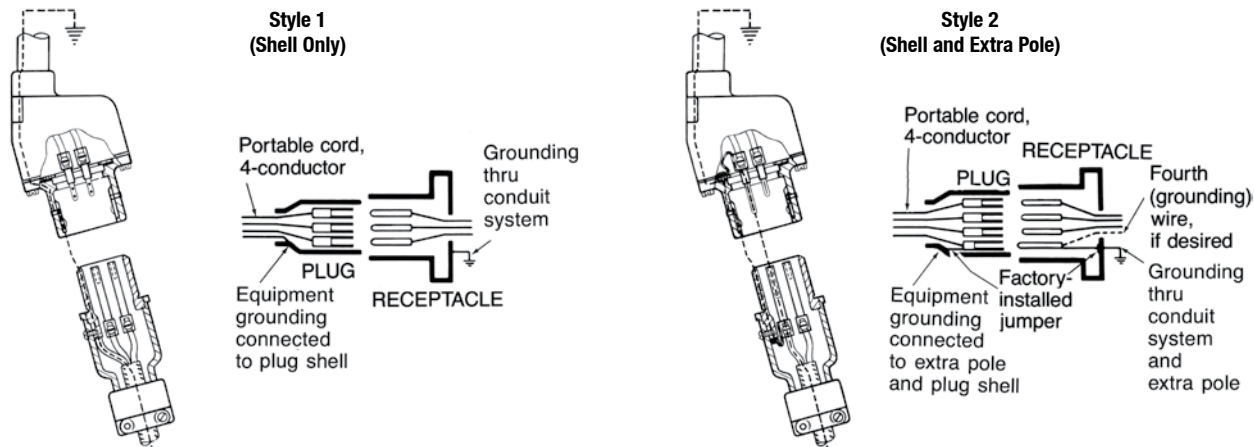
Illustrated Features



Powertite® Series Pin and Sleeve Plugs, Connectors and Receptacles

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 †



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



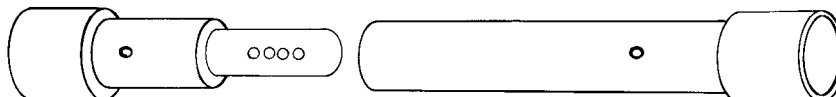
150 Amp Pressure Wire Terminals.
Solid Copper Contacts with Beryllium Copper Springs.



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.

† Pins and sleeves are not sold separately. Available on the Replacement Interiors pages.

Powertite® Series Pin and Sleeve Plugs, Connectors and Receptacles

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. 30 Amp plug clamp used in first position with smallest inside diameter bushing provides positive grip on cables as small as 0.390 inches, such as those that are used in oil rig installations.



Reversible Cable Clamps

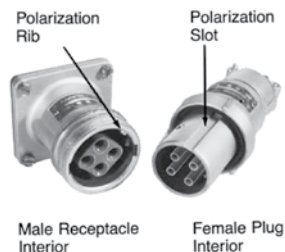
Permits wide cable range (just loosen screws and flip over). Each position accommodates one of two bushings. Convenient in installations having different cable sizes.



Illustrated Options

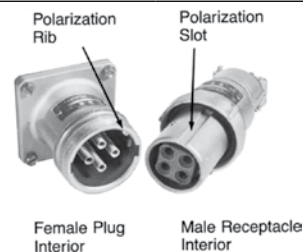
Standard Service

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

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.

Powertite® Series Pin and Sleeve Plugs, Connectors and Receptacles

Features at a Glance

Amp	Receptacle Types				Brass with Beryllium Copper Springs	Copper with Borosilicate Bearings	Contacts Split-type Copper Contacts	Brass Ground Contacts	Reverse Service	
	Grounding Styles	Weatherproof Spring Door	NEMA 4X Screw Cap	Raintight Clamp Cover					In Field	Factory Only
30	1 and 2	X	X		X			Style 2	X	
60	1 and 2	X	X		X			Style 2	X	
100	1 and 2	X	X		X			Style 2	X	
150	2	X	X		X †			Style 2	X	
200	1 and 2	X ▼		X ▼			X	Style 2	X ‡	
400	1 and 2					X		Style 2		X

Application Chart

Grounding Style	Wire/Pole	Single Phase		Grounding Style	Wire/Pole	Three Phase	
		With Neutral	Without Neutral			With Neutral	Without Neutral
Style 1 (Shell Only)	2W, 2P	L1+N+G	L1+L2+G	Style 1 (Shell Only)	2W, 2P		
	3W, 3P	L1+L2+N+G			3W, 3P		L1+L2+L3+G
	4W, 4P				4W, 4P	L1+L2+L3+N+G	
Style 2 (Shell and Extra Pole)	2W, 3P	L1+N+G	L1+L2+G	Style 2 (Shell and Extra Pole)	2W, 3P		
	3W, 4P	L1+L2+N+G			3W, 4P		L1+L2+L3+G

Powertite® Horsepower Ratings Plug may be withdrawn in an emergency if within these maximum HP ratings. Not for normal starting/stopping.

Motor Horsepower					
Phase Motor	Amps	115 Vac	230 Vac	480 Vac	600 Vac
For Emergency Disconnect Only					
3-Phase 3W, 3P; 3W, 4P; or 4W, 4P	30	3	7-1/2	15	20
	60	7-1/2	15	30	30
	100	10	20	40	40
	150	Do Not Disconnect Under Load			
	200	20	40	50	50

Motor Horsepower					
Phase Motor	Amps	115 Vac	230 Vac	480 Vac	600 Vac
1-Phase 2W, 2P or 2W, 3P	30	2	3	10	10
	60	3	10	20	20
	100	7-1/2	15	30	30
	200	15	30	40	40

Range of Wire Sizes Accommodated in Powertite® Plug and Receptacle Terminals

140 °F/60 °C minimum wire ratings.

30, 60, 100, and 150 Amp				200 Amp			400 Amp		
Amps	Wire Recess Dia. (Inches)	Wire Range Building	Extra Flex.	Wire Recess Dia. (Inches)	Conductor Size	Type Conductor	Solder Recess Dia. (Inches)	Conductor Size	Type Conductor
30	.281	#10 – #6	#10 – #8	0.687	250	General Wire	0.84	500 MCM	General Wire
60	.312	#6 – #2	#6 – #4		4/0	General Wire		400 MCM	Flex. Cable
100	.391	#4 – #1	#4 – #2		4/0	Flex. Cable		400 MCM	Extra Flex.
150	.525	#2 – 2/0	#2 – 2/0		3/0	Flex. Cable	1.25	1000 MCM	General wire
					3/0	Extra Flex.		900 MCM	General Wire
					2/0	Flex. Cable		800 MCM	Extra Flex.

▼ NEMA 4X.

‡ For receptacle only.

† Copper with beryllium copper springs.

Powertite® 30, 60, 100, and 150 Amp Replacement Parts

600 Vac, 250 Vdc, 50-400 Hz

	Description	Catalog Number
ACP Plug Clamping Ring — Includes Gasket		
	30 Amp — 2-, 3- and 4-Pole	CLMPR30
	30 Amp — 3-Wire, 4-Pole	30CRING ‡
	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 (Unthreaded)	30SCAP ‡
	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" *	PTRGL100

‡ For use with 30 Amp Powertite plugs and WSR/WSRD/JBR/EBR/DBR receptacles.

* Ground lug is cast into the housing after 09/2008.

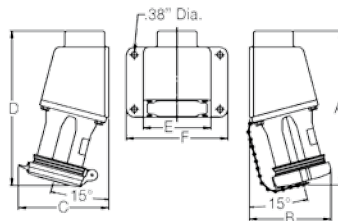
Powertite® 30, 60, 100, and 150 Amp Mounted Receptacle Dimensions

600 Vac, 250 Vdc, 50-400 Hz

Plugs and Receptacles

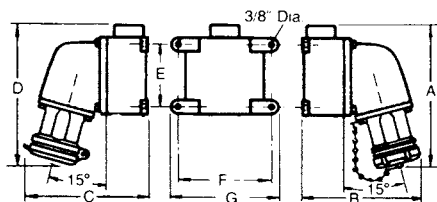
PLUGS AND RECEPTACLES: ORDINARY LOCATION

Receptacle Mounted on AEE Box



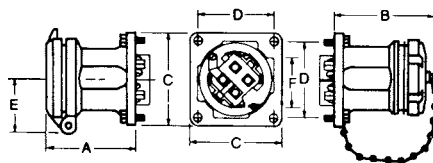
Dimensions in Inches/Millimeters						
Amp	A	B	C	D	E	F
30	6.88/174.7	3.45/89.6	3.95/100.3	7.13/181.1	4.25/107.9	5.00/127.0
60	9.75/247.6	4.73/120.1	4.98/126.4	10.00/254.0	5.38/136.6	6.38/162.0

Receptacle Mounted on AJA Box



Dimensions in Inches/Millimeters							
Amp	A	B	C	D	E	F	G
60	9.63/244.6	8.00/203.2	8.81/223.7	10.69/271.5	4.88/123.9	6.88/174.7	7.88/200.15
100 and 150	11.44/290.5	9.00/228.6	9.19/233.4	11.82/300.2	4.88/123.9	6.88/174.7	7.88/200.15

ADR Receptacle

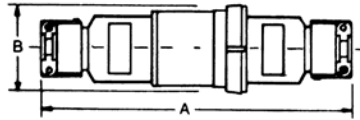


Dimensions in Inches/Millimeters							
Amp	No. Poles	A	B	C	D	E	F
30	2,3,4	2.80/71.1	3.19/81.0	3.38/85.8	2.72/69.0	2.06/52.3	2.75/69.8
60	2,3	4.88/123.9	4.63/117.6	4.25/107.9	3.50/88.9	2.31/58.6	3.10/78.7
60	4	4.88/123.9	4.63/117.6	4.25/107.9	3.50/88.9	2.44/61.9	3.35/85.0
100	2,3	5.10/129.5	5.50/139.7	4.25/107.9	3.50/88.9	2.44/61.9	3.40/86.3
100 and 150	4	5.10/129.5	5.50/139.7	4.25/107.9	3.50/88.9	2.56/65.0	3.60/91.4

Powertite® 30, 60, 100, and 150 Amp Connector and Plug Dimensions

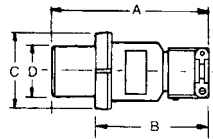
600 Vac, 250 Vdc, 50-400 Hz

ARC Cable Connector



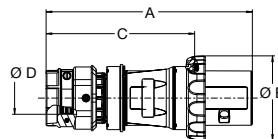
Amp	Dimensions in Inches/Millimeters	
	A	B
30	10.50/266.7	3.13/79.5
60	13.25/336.5	3.81/96.7
100	16.00/406.4	4.25/107.9

ACP Plug



Amp	No. Poles	Dimensions in Inches/Millimeters			
		A	B	C	D
30	2,3,4	6.00/152.4	4.75/120.6	3.13/79.5	1.86/47.2
60	2,3	7.81/198.3	4.94/125.4	3.50/88.9	2.23/56.6
60	4	7.81/198.3	4.94/125.4	3.81/96.7	2.55/64.7
100	2,3	10.50/266.7	6.63/168.4	4.00/101.6	2.47/62.7
100	4	10.50/266.7	6.63/168.4	4.25/107.9	2.72/69.0
150 (CD)	4	10.50/266.7	6.63/168.4	4.25/107.9	2.72/69.0
150 (DE)	4	13.40/340.3	9.73/247.1	4.25/107.9	2.72/69.0

NMACP Plug



Amp	No. Poles	Dimensions in Inches/Millimeters			
		A	B	C	D Min — Max
30	4	7.36/187.0	2.48/63.0	5.71/145.0	0.43/11.0 — 0.97/24.5
60	4	9.65/245.0	3.94/100.0	6.85/174.0	0.57/14.5 — 1.42/36.0

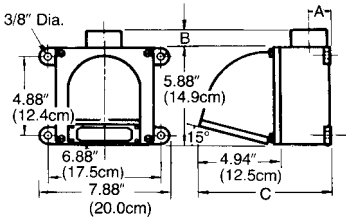
Powertite® 30, 60, 100, and 150 Amp Mounting Box Dimensions

600 Vac, 250 Vdc, 50-400 Hz

Plugs and Receptacles

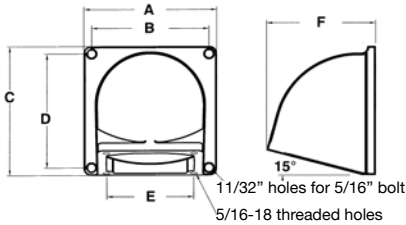
PLUGS AND RECEPTACLES: ORDINARY LOCATION

AJA Mounting Boxes



		Dimensions in Inches/Millimeters		
Amp	Hub Size (Inches)	A	B †	C
60, 100 and 150	1	1.13/28.7	0.56/14.2	8.0/203.2
	1-1/4	1.13/28.7	0.56/14.2	8.0/203.2
	1-1/2	1.50/38.1	0.56/14.2	8.0/203.2
	2	1.50/38.1	0.56/14.2	8.0/203.2

AJA100 Angle Adapter



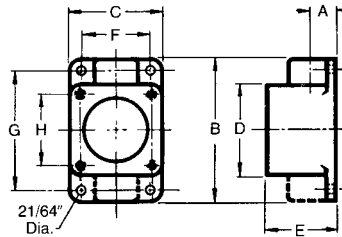
Dimensions in Inches/Millimeters					
A	B	C	D	E	F
5.87/149.0	5.18/131.5	5.87/149.0	5.18/131.5	3.50/88.9	4.81/122.1

† AJA has two hubs. Close-up plug furnished in bottom recessed hub.

Powertite® 30, 60, 100, and 150 Amp Mounting Box Dimensions

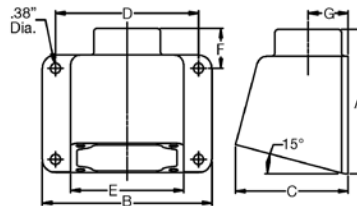
600 Vac, 250 Vdc, 50-400 Hz

AERA *, AERC ‡ and AERH Mounting Boxes



Amp	Hub Size (Inches)	Dimensions in Inches/Millimeters								
		A *	B ‡	C	D	E	F	G	H	J
30	1/2	0.69/17.5	5.31/134.8	3.38/85.8	3.38/85.8	2.50/63.5	2.63/66.8	4.56/115.8	2.72/69.0	0.94/23.8
30	3/4	0.75/19.0	5.31/134.8	3.38/85.8	3.38/85.8	2.50/63.5	2.63/66.8	4.56/115.8	2.72/69.0	0.94/23.8
30	1	0.81/20.5	5.31/134.8	3.38/85.8	3.38/8.6	2.50/63.5	2.63/66.8	4.56/115.8	2.72/69.0	0.94/23.8
60	1	0.81/20.5	6.50/165.1	4.25/107.9	4.25/107.9	3.13/79.5	3.50/88.9	5.88/149.3	3.50/88.9	1.38/35.0
60	1-1/4	0.94/23.8	6.50/165.1	4.25/107.9	4.25/107.9	3.13/79.5	3.50/88.9	5.88/149.3	3.50/88.9	1.38/35.0
60	1-1/2	1.00/25.4	6.50/165.1	4.25/107.9	4.25/107.9	3.13/79.5	3.50/88.9	5.88/149.3	3.50/88.9	1.38/35.0

AEE Mounting Box



Amp	Hub Size (Inches)	Dimensions in Inches/Millimeters						
		A	B	C	D	E	F	G
30	1/2, 3/4, 1	4.12/104.6	5.00/127.0	3.33/84.5	4.25/107.9	3.38/85.8	1.18/29.9	1.10/27.9
60	1, 1-1/4, 1-1/2	5.41/137.4	6.38/162.0	4.23/107.4	5.38/136.6	4.25/107.9	1.50/38.1	1.50/38.1

* Dimension "A" for AERA only.
‡ Dimension "B" for AERC only.

Powertite® 200 Amp Pin and Sleeve Spring Door Plugs and Receptacles

600 Vac, 250 Vdc, 50-400 Hz.

Wire Recess Diameter: .687". Wire Size Range: 250 MCM-#2/0. Pressure Wire Terminals ★.

NEMA 3, 3R, 4, 4X



Grounding Style	Wire/Pole	Receptacle with AJA Mounting Box †	Hub Size (Inches)	Receptacle Only †	Plug Only	Cable Dia. (Inches)
Style 1 (Shell Only)	3W, 3P	ADJA20033-150	1-1/2	ADR20033	AP20033CD	.875 to 1.906
		ADJA20033-200	2		AP20033E	1.875 to 2.500
		ADJA20033-250	2-1/2			
	4W, 4P	ADJA20044-200	2	ADR20044	AP20044CD	.875 to 1.906
		ADJA20044-250	2-1/2		AP20044E	1.875 to 2.500
Style 2 (Shell and Extra Pole)	2W, 3P	ADJA20023-150	1-1/2	ADR20023	AP20023CD	.875 to 1.906
		ADJA20023-200	2		AP20023E	1.875 to 2.500
		ADJA20023-250	2-1/2			
	3W, 4P	ADJA20034-150	1-1/2	ADR20034	AP20034CD	.875 to 1.906
		ADJA20034-200	2		AP20034E	1.875 to 2.500
		ADJA20034-250	2-1/2			

For Reverse Service add suffix **-RS** to Catalog Number.

For Special Polarization, add suffix **-P4** to Catalog Number.

Maximum Conductor Size

Wire Recess Dia. (Inches)	Conductor Size	Max. Strand	Type Conductor
0.687	250 MCM	37	General Wire
	4/0	19	General Wire
	4/0	259	Flexible Cable
	3/0	427	Extra Flexible Cable
	2/0	259	Flexible Cable
	2/0	259	Flexible Cable

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.

Motor Phase	Wire/Pole	Motor Horsepower			
		120 Vac	240 Vac	480 Vac	600 Vac
1-Phase	2W, 3P	15HP	30HP	40HP	40HP
3-Phase	3W, 3P; 3W, 4P; or 4W, 4P	20HP	40HP	50HP	50HP

★ Adapters for #4-#1 wire available, see Powertite® 200 and 400 Amp Replacement Parts.

† For additional mounting boxes, see Aluminum Mounting Boxes.

† Receptacle meets NEMA 3R with spring door closed and NEMA 3, 3R, 4, 4X with plug fully inserted and wing nuts fully tightened or cover closed with wing nuts fully tightened.

Powertite® 200 Amp Pin and Sleeve Clamp Cover Plugs, Connectors and Receptacles

600 Vac, 250 Vdc, 50-400 Hz.

Wire Recess Diameter: .687". Wire Size Range: 250 MCM-#2/0. Pressure Wire Terminals ★.

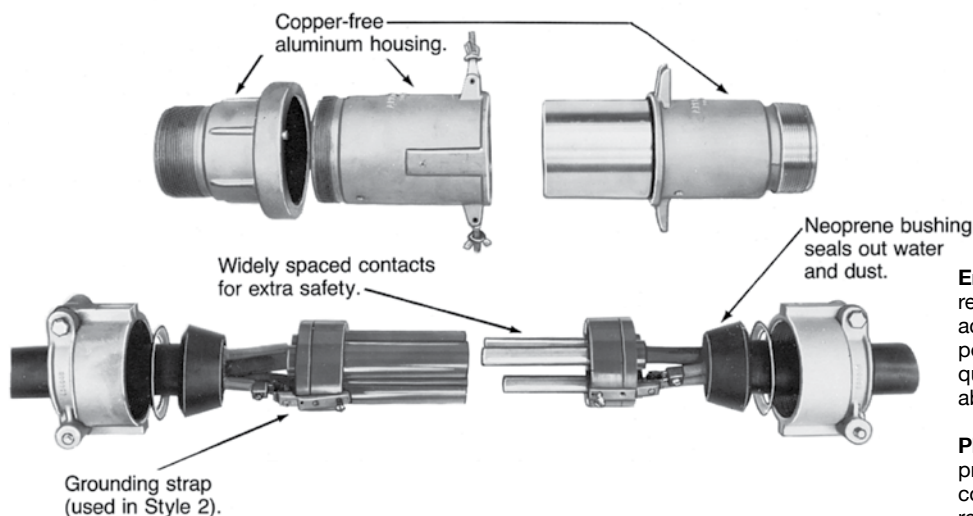
NEMA 3, 3R, 4, 4X



Grounding Style	Wire/Pole	Receptacle with AJA Mounting Box †	Hub Size (Inches)	Receptacle Only †	Connector Body Only	Plug Only ‡	Cable Dia. (Inches)
Style 1 (Shell Only)	3W, 3P	AJA20033-150	1-1/2	AR20033	ARC20033CD	AP20033CD	.875 to 1.906
		AJA20033-200	2		ARC20033E	AP20033E	1.875 to 2.500
		AJA20033-250	2-1/2				
	4W, 4P	AJA20044-200	2	AR20044	ARC20044CD	AP20044CD	.875 to 1.906
		AJA20044-250	2-1/2		ARC20044E	AP20044E	1.875 to 2.500
Style 2 (Shell and Extra Pole)	2W, 3P	AJA20023-150	1-1/2	AR20023	ARC20023CD	AP20023CD	.875 to 1.906
		AJA20023-200	2		ARC20023E	AP20023E	1.875 to 2.500
		AJA20023-250	2-1/2				
	3W, 4P	AJA20034-150	1-1/2	AR20034	ARC20034CD	AP20034CD	.875 to 1.906
		AJA20034-200	2			AP20034E	1.875 to 2.500
		AJA20034-250	2-1/2		ARC20034E		

For Reverse Service add suffix **-RS** to Catalog Number.
For Special Polarization, add suffix **-P4** to Catalog Number.

Pin and Sleeve Design



Energized contacts deeply recessed to reduce danger of accidental touching, minimize possibility of exposed arcs. Insulator quenches arcing, and is resistant to abnormal heat and to fire.

Plug mechanical cable clamps provide strain relief at conductor connections, allow easy cable replacement.

★ Adapters for #4-#1 wire available, see Powertite® 200 and 400 Amp Replacement Parts.

◆ For additional mounting boxes, see Aluminum Mounting Boxes.

† Receptacle meets NEMA 3, 3R, 4, 4X with plug fully inserted and wing nuts fully tightened or clamp cover installed with wing nuts fully tightened.

‡ Plug and connector body combination is NEMA 4X rated when wing nuts are fully tightened on connector body.

Powertite® 400 Amp Pin and Sleeve Clamp Cover Plugs and Receptacles

600 Vac, 250 Vdc, 50-400 Hz.

Wire Recess Diameter: .84" or 1.25". Wire Size Range: 400MCM—1000MCM. Solder Wire Terminals.

Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION



Wire Recess Dia. (Inches)	Grounding Style	Wire/Pole	Receptacle with AJA Mounting Box	Hub Size (Inches) †	Receptacle Only	Plug Only	Cable Dia. (Inches)
0.84 ♦	Style 1 (Shell Only)	3W, 3P	AJA40033-400	4	AR40033	AP40033E	1.875 to 2.500
		4W, 4P	AJA40044-400		AR40044	AP40044E	1.875 to 2.500
	Style 2 (Shell and Extra Pole)	2W, 3P	AJA40023-400	4	AR40023	AP40023E	1.875 to 2.500
		3W, 4P	AJA40034-400		AR40034	AP40034E	1.875 to 2.500
1.25	Style 1 (Shell Only)	3W, 3P	AJA40133-400	4	AR40133	AP40133F	2.500 to 3.000
						AP40133G	3.000 to 3.500
	Style 2 (Shell and Extra Pole)	4W, 4P	AJA40144-400	4	AR40144	AP40144F	2.500 to 3.000
						AP40144G	3.000 to 3.500
		2W, 3P	AJA40123-400	4	AR40123	AP40123F	2.500 to 3.000
						AP40123G	3.000 to 3.500
		3W, 4P	AJA40134-400	4	AR40134	AP40134F	2.500 to 3.000
						AP40134G	3.000 to 3.500

Solder wire terminals standard on all models.

For Reverse Service add suffix **-RS** to Catalog Number.

For Special Polarization add suffix **-P4** to Catalog Number.

Note: Box can be turned for vertical or horizontal mount.

Maximum Conductor Size

400 Amp not horsepower rated. Plug is for disconnecting use only — not for current rupturing.

Solder Recess Dia. (Inches)	Conductor Size	Max. Strand	Type Conductor
0.84	500 MCM	37	General Wire
	400 MCM	259	Flexible Cable
	400 MCM	427	Extra Flexible Cable
1.25	1000 MCM	61	General Wire
	900 MCM	427	Flexible Cable
	800 MCM	703	Extra Flexible Cable

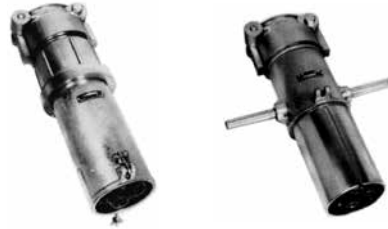
♦ Pressure terminal kits available for .84 wire recess size only to convert solder terminal to pressure terminal. See Replacement Parts page.

† Has feed-thru 4" tapped openings. Supplied with one 4" to 3" reducer and one 4" close-up plug

Powertite® 400 Amp Pin and Sleeve Connectors and Plugs

600 Vac, 250 Vdc, 50-400 Hz.

Wire Recess Diameter: .84" or 1.25". Wire Size Range: 400MCM—1000MCM. Solder Wire Terminals.



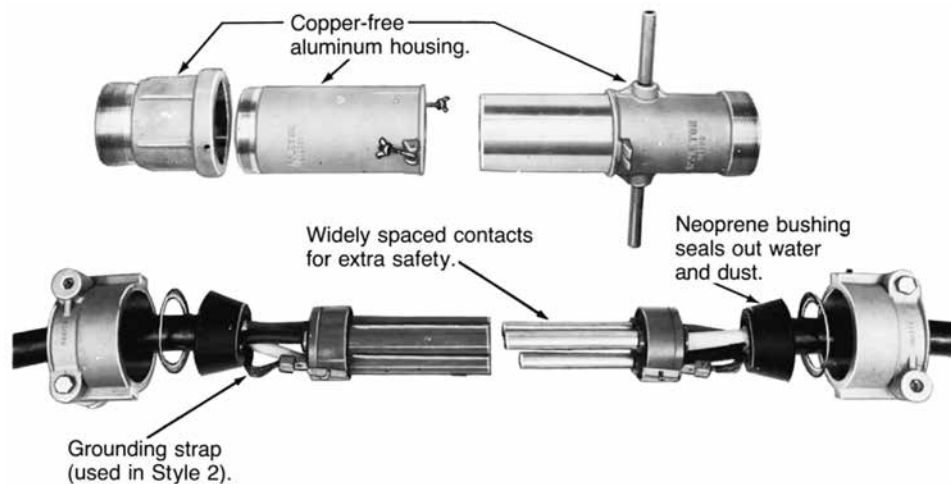
Wire Recess Dia. (Inches)	Grounding Style	Wire/Pole	Connector Body Only	Plug Only	Cable Dia. (Inches)
0.84 ♦	Style 1 (Shell Only)	3W, 3P	ARC40033E	AP40033E	1.875 to 2.500
		4W, 4P	ARC40044E	AP40044E	1.875 to 2.500
	Style 2 (Shell and Extra Pole)	2W, 3P	ARC40023E	AP40023E	1.875 to 2.500
		3W, 4P	ARC40034E	AP40034E	1.875 to 2.500
1.25	Style 1 (Shell Only)	3W, 3P	ARC40133F	AP40133F	2.500 to 3.000
			ARC40133G	AP40133G	3.000 to 3.500
		4W, 4P	ARC40144F	AP40144F	2.500 to 3.000
	Style 2 (Shell and Extra Pole)		ARC40144G	AP40144G	3.000 to 3.500
		2W, 3P	ARC40123F	AP40123F	2.500 to 3.000
			ARC40123G	AP40123G	3.000 to 3.500
		3W, 4P	ARC40134F	AP40134F	2.500 to 3.000
			ARC40134G	AP40134G	3.000 to 3.500

Solder wire terminals standard on all models.

For Reverse Service add suffix **-RS** to Catalog Number.

For Special Polarization add suffix **-P4** to Catalog Number.

Pin and Sleeve Design



Energized contacts deeply recessed to reduce danger of accidental touching, minimize possibility of exposed arcs. Insulator quenches arcing, and is resistant to abnormal heat and to fire.

Plug mechanical cable clamps provide strain relief at conductor connections, allow easy cable replacement.

♦ Pressure terminal kits available for .84 wire recess size only to convert solder terminal to pressure terminal. See Replacement Parts page.

Powertite® 200 and 400 Amp Mounting Boxes and Replacement Interiors

600 Vac, 250 Vdc, 50-400 Hz.

Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION

200 Amp Mounting Boxes and Angle Adapter



Hub Size (Inches)	AJB	AJA	AJA200 (Angle Adapter Only)
1-1/2 NPT	—	AJA520	AJA200
2 NPT	AJB620	AJA620	AJA200
2-1/2 NPT	—	AJA720	AJA200
2-3/8 (Slip Hole)	AJB238	—	—

400 Amp Mounting Box and Angle Adapter



Hub Size (Inches)	AJAC *	AJA400 (Angle Adapter Only)
4	AJAC400	AJA400

200 Amp Interiors †



Grounding Style	Wire/Pole	Receptacle	Plug	Receptacle	Plug
Style 1 (Shell Only)	3W, 3P	ARI20033	API20033	—	—
	4W, 4P	ARI20044	API20044	—	—
Style 2 (Shell and Extra Pole)	2W, 3P	—	—	ARI20023	API20023
	3W, 4P	—	—	ARI20034	API20034

400 Amp Interiors †



Wire Recess Dia. (Inches)	Grounding Style	Wire/Pole	Receptacle	Plug	Receptacle	Plug
.84	Style 1 (Shell Only)	3W, 3P	ARI40033	API40033	—	—
		4W, 4P	ARI40044	API40044	—	—
	Style 2 (Shell and Extra Pole)	2W, 3P	—	—	ARI40023	API40023
		3W, 4P	—	—	ARI40034	API40034
1.25	Style 1 (Shell Only)	3W, 3P	ARI40133	API40133	—	—
		4W, 4P	ARI40144	API40144	—	—
	Style 2 (Shell and Extra Pole)	2W, 3P	—	—	ARI40123	API40123
		3W, 4P	—	—	ARI40134	API40134

* Has feed-thru 4" tapped openings. Supplied with one 4" to 3" reducer and one 4" close-up plug.

† Pins and sleeves are not sold separately.

Powertite® 200 and 400 Amp Replacement Parts

600 Vac, 250 Vdc, 50-400 Hz.

	Description	Catalog Number
Receptacle Covers		
	Spring Cover — Includes Gasket	
	200 Amp — 2- and 3-Pole	PTLC200A
	200 Amp — 4-Pole	PTLC200B
	Clamping Cover — Includes Gasket and Chain	
	200 Amp — 2- and 3-Pole	PTBC200A
	200 Amp — 4-Pole	PTBC200B
	400 Amp — 2- and 3-Pole	PTBC400A
	400 Amp — 4-Pole	PTBC400B
Bushing Bags for Plugs and Cable Connectors		
	200 Amp - Suffix CD	PTGBCD
	200 Amp - Suffix E	PTGB200E
	400 Amp - Suffix E	PTGB400E
	400 Amp - Suffix F	PTGB400F
	400 Amp - Suffix G	PTGB400G
Receptacle Lockout Device		
	Lockout, 200 Amp 3- and 4-Pole Models	PTLOCK2004
	Lockout, 400 Amp 4-Pole Models	PTLOCK4004
Optional Accessory for Wire Size #1 to #4		
<i>Check National Electrical Code for proper wire size and application</i>		
	200 Amp, 3-Pole Wire Adapter Kit	PTK200WA3
	200 Amp, 4-Pole Wire Adapter Kit	PTK200WA4
400 Amp Pressure Terminal Kits		
	Use with 400-500 MCM Wire	
	0.84" I.D. Wire Recess	
	3 Adapters	PTK84-3P
	4 Adapters	PTK84-4P
	Use With 750 MCM General Wire or 500-777 MCM Flexible Wire	
	1.18" I.D. Wire Recess	
	3 Adapters	PTK750-3P
	4 Adapters	PTK750-4P

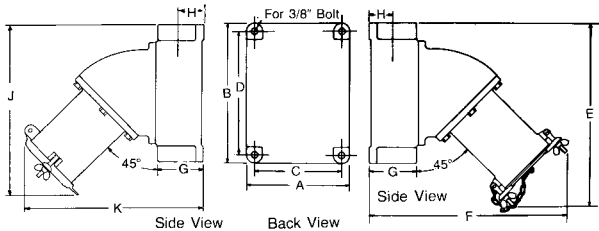
Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION

Powertite® 200 Amp Mounted Receptacle Dimensions

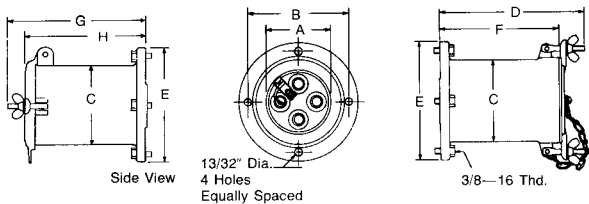
600 Vac, 250 Vdc, 50-400 Hz.

Receptacle Mounted on AJA and AJAC Boxes



Dimensions in Inches/Millimeters									
A	B	C	D	E	F	G	H	J	K
8.00/203.2	10.75/273.0	6.75/171.4	9.50/241.3	14.00/355.6	15.25/387.3	3.75/95.2	1.88/47.7	13.50/342.9	14.25/361.9

Receptacle



Dimensions in Inches/Millimeters								
No. Poles	A	B	C	D	E	F	G	H
3	3.25/82.5	5.63/143.0	4.19/10.46	8.00/203.2	6.63/168.4	6.56/166.6	6.70/170.1	7.05/179.0
4	3.63/92.2	5.63/143.0	4.56/115.8	8.00/203.2	6.63/168.4	6.56/166.6	6.70/170.1	7.05/179.0