

AE Series Pin and Sleeve Plugs, Connectors and Receptacles

Weatherproof

600 Vac, 250 Vdc. Pressure Wire Terminals.

NEC:

Rated for Ordinary (Unclassified) Locations

Applications

- Designed to supply power to portable or fixed electrical equipment such as:
 - Welders
 - Generators
 - Compressors
 - Pumps
 - Similar apparatus
- Suitable for use in locations where a weatherproof enclosure is required such as:
 - Shipping docks
 - Ports
 - Ship to shore applications

Features

- Available in 30, 60, and 100 Amp units.
- Contacts exert constant pressure along the entire contact surface, providing electrical continuity. Solid brass contacts with beryllium copper springs.
- Choice of receptacle types: weatherproof spring door or raintight screw cap.
- Plug with clamp ring has neoprene gasket. Ring threads onto screw cap receptacle to provide raintight assembly when properly tightened.
- Cable clamps prevent strain on cables and allow easy cable replacement.
- Mounting box gasket protects receptacle from moisture.
- Insulating blocks provide high degree of dielectric and mechanical strength and lowest moisture absorption, lowest arc tracking.
- Choice of several mounting boxes permits different types of installations.
- Floating-type plug contacts self-align to receptacle contacts.
- Available in two grounding styles: Style 1 (shell only) and Style 2 (shell and extra pole).
- Grounding detent springs in Style 1 and Style 2.
- Grounding strap provided in Style 2 permits extra pole grounding.
- Longer ground contact in Style 2 "makes first and breaks last."

Standard Materials

- Plug, connector, receptacle and mounting box housings: copperfree (4/10 of 1% max.) aluminum
- Insulating blocks: fiber glass reinforced phenolic
- Contacts: brass

Standard Finishes

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

Options

- Reverse Service: 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. Suffix **-RS** to receptacle or connector.

NEC Compliances

- UL Standard: UL 1682, UL 1686



AE Series 60 Amp Pin and Sleeve Receptacles Connectors and Plugs

Weatherproof

600 Vac, 250 Vdc. Pressure Wire Terminals. Wire Size Range: #8—#4

NEC:
Rated for Ordinary (Unclassified) Locations

PLUGS AND RECEPTACLES: NEC/CEC ORDINARY LOCATION



Grounding Style	Wire/Pole	Spring Door Receptacle Only	Screw Cap Receptacle Only	Connector Body Only	Clamping Ring Plug	Plug Cable Dia. (Inches)
Style 1 (Shell Only)	2W, 2P	AE621	AE627	APR6252	AEP6252	1.000 to 1.312
	3W, 3P	AE631	AE637	APR6352	AEP6352	1.000 to 1.312
	4W, 4P	AE641	AE647	APR6452	AEP6452	1.000 to 1.312
Style 2 (Shell and Extra Pole)	2W, 3P	AE632	AE638	APR6362	AEP6362	1.000 to 1.312
	3W, 4P	AE642	AE648	APR6462	AEP6462	1.000 to 1.312

AE Series Mounting Boxes



Hub Size (Inches)	AEE	AERH	AERC	AERA	AJA ①	AJA Adapter
1	AEE36	AERH36	AERC36	AERA36	AJA310	AJA100
1-1/4	AEE46	AERH46	AERC46	AERA46	AJA410	AJA100
1-1/2	AEE56	AERH56	AERC56	AERA56	AJA510	AJA100
2	—	—	—	—	AJA610	AJA100

60 Amp Interiors ②



Grounding Style	Wire/Pole	Interior Style 1		Interior Style 2	
		Receptacle	Plug	Receptacle	Plug
Style 1 (Shell Only)	2W, 2P	AEI-621	AEPI-621	—	—
	3W, 3P	AEI-631	AEPI-631	—	—
	4W, 4P	AEI-641	AEPI-641	—	—
Style 2 (Shell and Extra Pole)	2W, 3P	—	—	AEI-632	AEPI-632
	3W, 4P	—	—	AEI-642	AEPI-642

① AJA Feed Thru box furnished with one close-up plug in bottom recessed hub.
② Pins and sleeves are not sold separately. Must purchase as a replacement interior.

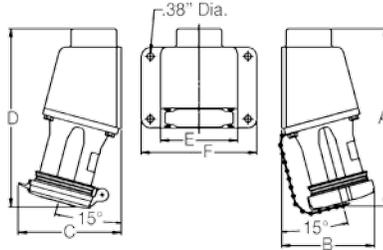
AE Series 30, 60, and 100 Amp Receptacle

Pin and Sleeve Plugs, Connectors and Receptacles

NEC:
Rated for Ordinary (Unclassified) Locations

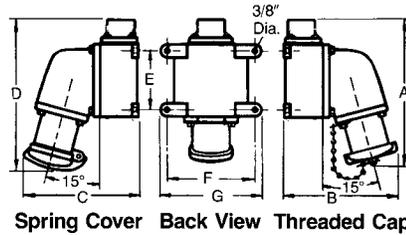
Dimensions in Millimeters (Inches)

Receptacle Mounted on AEE Box



Dimensions in Millimeters (Inches)						
Amp	A	B	C	D	E	F
30	174.7 (6.88)	87.6 (3.45)	100.3 (3.95)	181.1 (7.13)	107.9 (4.25)	127.0 (5.00)
60	247.6 (9.75)	120.1 (4.73)	126.4 (4.98)	254.0 (10.00)	136.6 (5.38)	162.0 (6.38)

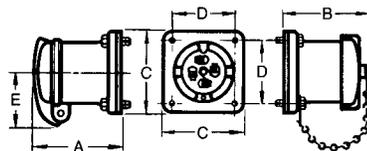
Receptacle Mounted on AJA-AJAC Box



Spring Cover Back View Threaded Cap

Dimensions in Millimeters (Inches)							
Amp	A	B	C	D	E	F	G
60	225.5 (8.88)	215.9 (8.50)	215.9 (8.50)	273.0 (10.75)	123.9 (4.88)	174.7 (6.88)	200.1 (7.88)
100	241.3 (9.50)	231.9 (9.13)	238.2 (9.38)	290.5 (11.44)	123.9 (4.88)	174.7 (6.88)	200.1 (7.88)

AE Receptacle



Spring Cover Back View Threaded Cap

Dimensions in Millimeters (Inches)					
Amp	A	B	C	D	E
30	90.4 (3.56)	87.3 (3.44)	85.9 (3.38)	69.0 (2.72)	55.6 (2.19)
60	115.8 (4.56)	111.2 (4.38)	114.3 (4.50)	88.9 (3.50)	68.3 (2.69)
100	136.6 (5.38)	131.8 (5.19)	114.3 (4.50)	88.9 (3.50)	71.3 (2.81)

PLUGS AND RECEPTACLES: NEC/CEC ORDINARY LOCATION

Appleton®