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
- Insulation 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
AE Series 30 Amp Pin and Sleeve Receptacles Connectors and Plugs

Weatherproof
600 Vac, 250 Vdc. Pressure Wire Terminals. Wire Size Range: #14—#8

NEC:
Rated for Ordinary (Unclassified) Locations

<table>
<thead>
<tr>
<th>Grounding Style</th>
<th>Wire/Pole</th>
<th>Spring Door Receptacle Only</th>
<th>Screw Cap Receptacle Only</th>
<th>Connector Body Only</th>
<th>Clamping Ring Plug</th>
<th>Plug Cable Dia. (Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Style 1 (Shell Only)</td>
<td>2W, 2P</td>
<td>AE321</td>
<td>AE327</td>
<td>APR3251</td>
<td>AEP3251</td>
<td>.625 to .750</td>
</tr>
<tr>
<td></td>
<td>3W, 3P</td>
<td>AE331</td>
<td>AE337</td>
<td>APR3351</td>
<td>AEP3351</td>
<td>.625 to .750</td>
</tr>
<tr>
<td></td>
<td>4W, 4P</td>
<td>AE341</td>
<td>AE347</td>
<td>APR3451</td>
<td>AEP3451</td>
<td>.625 to .750</td>
</tr>
<tr>
<td>Style 2 (Shell and Extra Pole)</td>
<td>2W, 3P</td>
<td>AE332</td>
<td>AE338</td>
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<td>AEP3361</td>
<td>.625 to .750</td>
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<tr>
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<td>3W, 4P</td>
<td>AE342</td>
<td>AE348</td>
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<td>AEP3461</td>
<td>.625 to .750</td>
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AE Series Mounting Boxes

<table>
<thead>
<tr>
<th>Hub Size (Inches)</th>
<th>AEE</th>
<th>AERH</th>
<th>AERC</th>
<th>AERA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>AEE13</td>
<td>AERH13</td>
<td>AERC13</td>
<td>AERA13</td>
</tr>
<tr>
<td>3/4</td>
<td>AEE23</td>
<td>AERH23</td>
<td>AERC23</td>
<td>AERA23</td>
</tr>
<tr>
<td>1</td>
<td>AEE33</td>
<td>AERH33</td>
<td>AERC33</td>
<td>AERA33</td>
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30 Amp Interiors

<table>
<thead>
<tr>
<th>Grounding Style</th>
<th>Wire/Pole</th>
<th>Interior Style 1</th>
<th>Interior Style 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Style 1 (Shell Only)</td>
<td>2W, 2P</td>
<td>AEI-321</td>
<td>AEPI-321</td>
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<tr>
<td></td>
<td>3W, 3P</td>
<td>AEI-331</td>
<td>AEPI-331</td>
</tr>
<tr>
<td></td>
<td>4W, 4P</td>
<td>AEI-341</td>
<td>AEPI-341</td>
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<tr>
<td>Style 2 (Shell and Extra Pole)</td>
<td>2W, 3P</td>
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<td>—</td>
</tr>
<tr>
<td></td>
<td>3W, 4P</td>
<td>—</td>
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</table>

© Pins and sleeves are not sold separately. Must purchase as a replacement interior.
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

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

AE Series Mounting Boxes

<table>
<thead>
<tr>
<th>Hub Size (Inches)</th>
<th>AEE</th>
<th>AERH</th>
<th>AERC</th>
<th>AERA</th>
<th>AJA ①</th>
<th>AJA Adapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AEE36</td>
<td>AERH36</td>
<td>AERC36</td>
<td>AERA36</td>
<td>AJA310</td>
<td>AJA100</td>
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<tr>
<td>1-1/4</td>
<td>AEE46</td>
<td>AERH46</td>
<td>AERC46</td>
<td>AERA46</td>
<td>AJA410</td>
<td>AJA100</td>
</tr>
<tr>
<td>1-1/2</td>
<td>AEE56</td>
<td>AERH56</td>
<td>AERC56</td>
<td>AERA56</td>
<td>AJA510</td>
<td>AJA100</td>
</tr>
<tr>
<td>2</td>
<td>—</td>
<td>—</td>
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<td>—</td>
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60 Amp Interiors ②

<table>
<thead>
<tr>
<th>Grounding Style</th>
<th>Wire/Pole</th>
<th>Interior Style 1</th>
<th>Interior Style 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Style 1 (Shell Only)</td>
<td>2W, 2P</td>
<td>AEI-621</td>
<td>AEI-621</td>
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<tr>
<td>3W, 3P</td>
<td>AEI-631</td>
<td>AEI-631</td>
<td></td>
</tr>
<tr>
<td>4W, 4P</td>
<td>AEI-641</td>
<td>AEI-641</td>
<td></td>
</tr>
<tr>
<td>Style 2 (Shell and Extra Pole)</td>
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<td>AEI-632</td>
</tr>
<tr>
<td>3W, 4P</td>
<td>—</td>
<td>AEI-642</td>
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</tbody>
</table>

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 100 Amp Pin and Sleeve Receptacles Connectors and Plugs

Weatherproof
600 Vac, 250 Vdc. Pressure Wire Terminals. Wire Size Range: #3—#1

**NEC:**
Rated for Ordinary (Unclassified) Locations

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<table>
<thead>
<tr>
<th>Grounding Style</th>
<th>Wire/Pole</th>
<th>Screw Cap Only</th>
<th>Screw Cap Only</th>
<th>Connector Body Only</th>
<th>Clamping Ring Plug</th>
<th>Plug Cable Dia. (Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Style 1 (Shell Only)</td>
<td>2W, 2P</td>
<td>AE1021</td>
<td>AE1027</td>
<td>APR10253</td>
<td>AEP10253</td>
<td>.875, 1.437 to 1.750</td>
</tr>
<tr>
<td></td>
<td>3W, 3P</td>
<td>AE1031</td>
<td>AE1037</td>
<td>APR10353</td>
<td>AEP10353</td>
<td>.875, 1.437 to 1.750</td>
</tr>
<tr>
<td></td>
<td>4W, 4P</td>
<td>AE1041</td>
<td>AE1047</td>
<td>APR10453</td>
<td>AEP10453</td>
<td>.875, 1.437 to 1.750</td>
</tr>
<tr>
<td>Style 2 (Shell and Extra Pole)</td>
<td>2W, 3P</td>
<td>AE1032</td>
<td>AE1038</td>
<td>APR10363</td>
<td>AEP10363</td>
<td>.875, 1.437 to 1.750</td>
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<tr>
<td></td>
<td>3W, 4P</td>
<td>AE1042</td>
<td>AE1048</td>
<td>APR10463</td>
<td>AEP10463</td>
<td>.875, 1.437 to 1.750</td>
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</tbody>
</table>

**AE Series Mounting Boxes**

<table>
<thead>
<tr>
<th>Hub Size (Inches)</th>
<th>AJA</th>
<th>AJA Adapter</th>
<th>AEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AJA310</td>
<td>AJA100</td>
<td>AEE36</td>
</tr>
<tr>
<td>1-1/4</td>
<td>AJA410</td>
<td>AJA100</td>
<td>AEE46</td>
</tr>
<tr>
<td>1-1/2</td>
<td>AJA510</td>
<td>AJA100</td>
<td>AEE56</td>
</tr>
<tr>
<td>2</td>
<td>AJA610</td>
<td>AJA100</td>
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</table>

**100 Amp Interiors**

<table>
<thead>
<tr>
<th>Grounding Style</th>
<th>Wire/Pole</th>
<th>Interiors Style 1</th>
<th>Interiors Style 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Style 1 (Shell Only)</td>
<td>2W, 2P</td>
<td>AEI-1021</td>
<td>AEPI-1021</td>
</tr>
<tr>
<td></td>
<td>3W, 3P</td>
<td>AEI-1031</td>
<td>AEPI-1031</td>
</tr>
<tr>
<td></td>
<td>4W, 4P</td>
<td>AEI-1041</td>
<td>AEPI-1041</td>
</tr>
<tr>
<td>Style 2 (Shell and Extra Pole)</td>
<td>2W, 3P</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>3W, 4P</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

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.

Visit our website at www.emerson.com or contact us at (800) 621-1506. © April 2019
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

<table>
<thead>
<tr>
<th>Amp</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>174.7 (6.88)</td>
<td>87.6 (3.45)</td>
<td>100.3 (3.95)</td>
<td>181.1 (7.13)</td>
<td>107.9 (4.25)</td>
<td>127.0 (5.00)</td>
</tr>
<tr>
<td>60</td>
<td>247.6 (9.75)</td>
<td>120.1 (4.73)</td>
<td>126.4 (4.98)</td>
<td>254.0 (10.00)</td>
<td>136.6 (5.38)</td>
<td>162.0 (6.38)</td>
</tr>
</tbody>
</table>

Receptacle Mounted on AJA-AJAC Box

<table>
<thead>
<tr>
<th>Amp</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>225.5 (8.88)</td>
<td>215.9 (8.50)</td>
<td>215.9 (8.50)</td>
<td>273.0 (10.75)</td>
<td>123.9 (4.88)</td>
<td>174.7 (6.88)</td>
<td>200.1 (7.88)</td>
</tr>
<tr>
<td>100</td>
<td>241.3 (9.50)</td>
<td>231.9 (9.13)</td>
<td>238.2 (9.38)</td>
<td>290.5 (11.44)</td>
<td>123.9 (4.88)</td>
<td>174.7 (6.88)</td>
<td>200.1 (7.88)</td>
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</table>

AE Receptacle

<table>
<thead>
<tr>
<th>Amp</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>90.4 (3.56)</td>
<td>87.3 (3.44)</td>
<td>85.9 (3.38)</td>
<td>69.0 (2.72)</td>
<td>55.6 (2.19)</td>
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<tr>
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<td>115.8 (4.56)</td>
<td>111.2 (4.38)</td>
<td>114.3 (4.50)</td>
<td>88.9 (3.50)</td>
<td>68.3 (2.69)</td>
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<tr>
<td>100</td>
<td>136.6 (5.38)</td>
<td>131.8 (5.19)</td>
<td>114.3 (4.50)</td>
<td>88.9 (3.50)</td>
<td>71.3 (2.81)</td>
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</tbody>
</table>
AE Series 30, 60, and 100 Amp Connector, Plug and Mounting Box
Pin and Sleeve Plugs, Connectors and Receptacles

NEC:
Rated for Ordinary (Unclassified) Locations

Dimensions in Millimeters (Inches)
APC Cable Connector

<table>
<thead>
<tr>
<th>Amp</th>
<th>Dimensions in Millimeters (Inches)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>A</td>
</tr>
<tr>
<td>30</td>
<td>234.9 (9.25)</td>
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<tr>
<td>60</td>
<td>304.8 (12.00)</td>
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<tr>
<td>100</td>
<td>355.6 (14.00)</td>
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</table>

AEP Plug

<table>
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<th>Amp</th>
<th>Dimensions in Millimeters (Inches)</th>
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<tbody>
<tr>
<td></td>
<td>A</td>
</tr>
<tr>
<td>30</td>
<td>152.4 (6.00)</td>
</tr>
<tr>
<td>60</td>
<td>152.4 (6.00)</td>
</tr>
<tr>
<td>100</td>
<td>227.0 (8.94)</td>
</tr>
</tbody>
</table>

AJAC and AJA Mounting Boxes

<table>
<thead>
<tr>
<th>Amp</th>
<th>Hub Size (Inches)</th>
<th>Dimensions in Millimeters (Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>60 and 100</td>
<td>1 (4)</td>
<td>28.7 (1.13)</td>
</tr>
<tr>
<td></td>
<td>1-1 (2)</td>
<td>38.1 (1.50)</td>
</tr>
<tr>
<td>100</td>
<td>2</td>
<td>38.1 (1.50)</td>
</tr>
</tbody>
</table>

† AJA has two hubs. Close-up plug furnished in bottom recessed hub.
**AE Series Mounting Box**

For AE Series 30, 60, and 100 Amp Receptacles

**NEC:**
Rated for Ordinary (Unclassified) Locations

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**Dimensions in Millimeters (Inches)**

AERA ™, AERC ™ and AERH Mounting Boxes

![Diagram of AERA Mounting Box]

<table>
<thead>
<tr>
<th>Amp</th>
<th>Hub Size (Inches)</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>D (mm)</th>
<th>E (mm)</th>
<th>F (mm)</th>
<th>G (mm)</th>
<th>H (mm)</th>
<th>J (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>1/2</td>
<td>17.5</td>
<td>134.8</td>
<td>85.8</td>
<td>85.8</td>
<td>63.5</td>
<td>66.8</td>
<td>115.8</td>
<td>69.0</td>
<td>23.8</td>
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<tr>
<td>30</td>
<td>3/4</td>
<td>19.0</td>
<td>134.8</td>
<td>85.8</td>
<td>85.8</td>
<td>63.5</td>
<td>66.8</td>
<td>115.8</td>
<td>69.0</td>
<td>23.8</td>
</tr>
<tr>
<td>30</td>
<td>1</td>
<td>20.5</td>
<td>134.8</td>
<td>85.8</td>
<td>85.8</td>
<td>63.5</td>
<td>66.8</td>
<td>115.8</td>
<td>69.0</td>
<td>23.8</td>
</tr>
<tr>
<td>60</td>
<td>1</td>
<td>20.5</td>
<td>165.1</td>
<td>107.9</td>
<td>107.9</td>
<td>79.5</td>
<td>88.9</td>
<td>149.3</td>
<td>88.9</td>
<td>35.0</td>
</tr>
<tr>
<td>60</td>
<td>1-1/4</td>
<td>23.8</td>
<td>165.1</td>
<td>107.9</td>
<td>107.9</td>
<td>79.5</td>
<td>88.9</td>
<td>149.3</td>
<td>88.9</td>
<td>35.0</td>
</tr>
<tr>
<td>60</td>
<td>1-1/2</td>
<td>25.4</td>
<td>165.1</td>
<td>107.9</td>
<td>107.9</td>
<td>79.5</td>
<td>88.9</td>
<td>149.3</td>
<td>88.9</td>
<td>35.0</td>
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</tbody>
</table>

**AEE Mounting Box**

![Diagram of AEE Mounting Box]

<table>
<thead>
<tr>
<th>Amp</th>
<th>Hub Size (Inches)</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>D (mm)</th>
<th>E (mm)</th>
<th>F (mm)</th>
<th>G (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>1/2, 3/4, 1</td>
<td>104.6</td>
<td>127.0</td>
<td>84.5</td>
<td>107.9</td>
<td>85.8</td>
<td>29.9</td>
<td>27.9</td>
</tr>
<tr>
<td>60 and 100</td>
<td>1, 1-1/4, 1-1/2</td>
<td>137.4</td>
<td>162.0</td>
<td>107.4</td>
<td>136.6</td>
<td>107.9</td>
<td>38.1</td>
<td>38.1</td>
</tr>
</tbody>
</table>

1. Dimension “A” for AERA only.