**APPLICATION**

Arktite plugs and receptacles are designed for the distribution of secondary electrical power and to provide for quick disconnect from the power source.

**GROUNDING STYLES**

**Style 1:**
Portable Cable 4 cond
Plug
Receptacle

Grounded thru conduit system

Style 1 units ground the portable device and the plug via the grounding conductor and the plug shell to the receptacle housing. The receptacle is grounded by virtue of its being an integral part of the conduit system.

**Style 2:**
Portable Cable 4 cond
Plug
Receptacle

Grounded thru conduit system and extra pole
Factory installed grounding strap

Style 2 units with a metallic housing have an extra (grounding) contact which forms a parallel circuit with the circuit formed by the plug sleeve and receptacle detent spring.

**INSTALLATION**

1. Install back box on conduit and securely fasten in desired position, using lag bolts or machine screws. See Table 1 for wire sizes.

**TABLE 1 - Wire Sizes**

<table>
<thead>
<tr>
<th>Wire Size (AWG)*</th>
<th>Conductor Construction</th>
<th>Class</th>
<th>Approx. Outside Dia. (In.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
<td>B</td>
<td>.292</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>G,H,I,K,M</td>
<td>.338</td>
</tr>
<tr>
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<td></td>
<td>B</td>
<td>.332</td>
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<tr>
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<td></td>
<td>G,H,I,K,M</td>
<td>.397</td>
</tr>
<tr>
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<td></td>
<td>B</td>
<td>.372</td>
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<tr>
<td>1/0</td>
<td></td>
<td>G,H,I,K,M</td>
<td>.451</td>
</tr>
</tbody>
</table>

*Style 1 (4 Wire, 4 Pole) units suitable for #1 AWG only.

2. Strip each conductor to the length indicated on the receptacle insulator. Use conductors with 75ºC minimum insulation rating.

3. Place rubber mounting gasket over prepared cable first.

4. • Contacts are designated by a corresponding number on the back side of the insulator.
   • Insert stripped wire ends into contact termination well. The ground contact is not numbered on the insulator assembly.
   • Tighten contact screws 50-100 lb.-in.

5. Fasten receptacle to back box with gasket properly positioned, using four (4) screws provided. If dust cover is used, put end of chain under one screw. When spring door is used, install on receptacle, turning down until door touches receptacle. Continue until hinge is in desired position and door gasket seats fully on receptacle housing. Tighten set screw.

**MAINTENANCE**

**WARNING**

To prevent damage to electrical system or injury to personnel:
1. If any parts of the plug or receptacle appear to be missing, broken, or show signs of damage, DISCONTINUE USE IMMEDIATELY. Replace with the proper replacement part(s) before continuing service.

**WARNING**

To prevent risk of electric shock:
1. Electrical power must be OFF before and during installation and maintenance. Installation and maintenance procedure must be performed by a trained and competent electrician.

Electrical and mechanical inspection of all components must be performed on a regularly scheduled basis, determined by the environment and frequency of use. It is recommended that inspection be performed a minimum of once a year.

• Inspect all contact wire terminals for tightness. Discoloration due to excessive heat is an indicator of a possible problem and should be thoroughly investigated and repaired as necessary.
• Clean exterior surfaces, making sure nameplates remain legible.
• Check tightness of all screws before using.
• Inspect housing and replace those which are broken.
• Check contacts for signs of excessive burning or arcing and replace if necessary.

In addition to these required maintenance procedures, we recommend an Electrical Preventative Maintenance Program as described in the National Fire Protection Association Bulletin NFPA No. 70B.

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