ARKTITE® 150 Amp Receptacles - Model M4
3 Wire, 4 Pole, Style 2
4 Wire, 4 Pole, Style 1
Installation & Maintenance Information

COOPER Crouse-Hinds

IF 1565

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

APPLICATION

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

⚠ WARNING

To prevent the risk of electric shock:

1. Electrical power supply must be OFF before and during installation and maintenance. Installation and maintenance procedure must be performed by a trained and competent electrician.
2. Receptacles connected to circuits having different voltages, frequencies, or types of current (AC or DC) on the same premises shall be of such design that the attachment plugs used on these circuits are not interchangeable.
3. Field modification of this product is not permitted.

⚠ WARNING

To prevent damage to electrical equipment:

1. Wire pattern MUST be used so that the same color wire is put into the same numbered contact opening in all plugs and receptacles in the system. This requirement provides correct polarity for the system and eliminates possibilities for equipment damage and/or personal injuries.
2. Do not disconnect under load. Remove power from the branch circuit before disconnecting plug from receptacle.

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

Wire Size (AWG)*	Conductor Construction	
	Class	Approx. Outside Dia. (In.)
2	B	.292
	G,H,I,K,M	.338
1	B	.332
	G,H,I,K,M	.397
1/0	B	.372
	G,H,I,K,M	.451

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

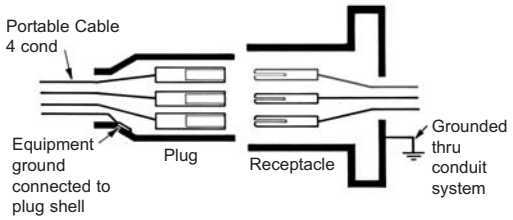
2. Strip each conductor to the length indicated on the receptacle insulator. Use conductors with 75ºC minimum insulation rating.
3. Place rubber mounting gasket over prepared cable first.
4. • Contacts are designated by a corresponding number on the back side of the insulator.
   • Insert stripped wire ends into contact termination well. The ground contact is not numbered on the insulator assembly.
   • Tighten contact screws 50-100 lb.-in.

Receptacles are provided with an extra (grounding) contact which forms a parallel circuit with the circuit formed by the plug sleeve and receptacle detent spring. Ensure that the grounding contact strap is securely fastened to the housing.

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.

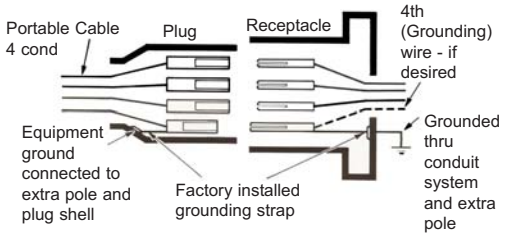
GROUNDING STYLES

Style 1:



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 and integral part of the conduit system.

Style 2:



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.

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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