CPR ARKTITE® Cable Connector Receptacle

IF1080

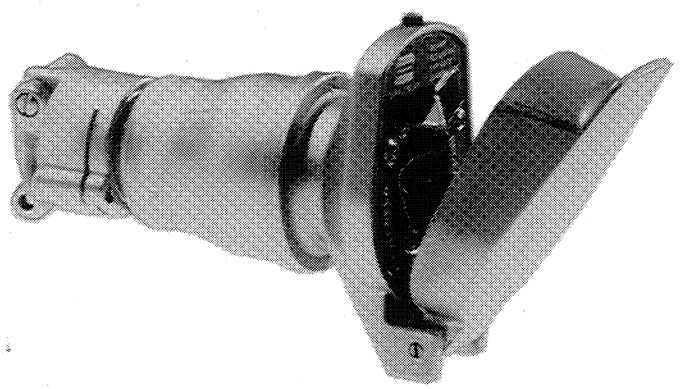
Installation & Maintenance Information

APPLICATION

CPR ARKTITE® delayed action cable connector receptacles are designed for use in non-hazardous areas to connect portable equipment having CPP Series plugs to receptacles. This is accomplished by equipping one end of a length of cable with the CPR receptacle and the other with a plug to mate with a fixed receptacle in a non-hazardous area.

CPR receptacles are rated 20A, 1HP, 125-250 VAC, 60 Hz; 20A, 18 VDC in a 2-wire, 3-pole configuration with grounding provided through extra pole and shell.

WARNING
CPR ARKTITE cable connectors are for use in non-hazardous areas only.



INSTALLATION

WARNING
Electrical power must be turned off before and during installation and maintenance.

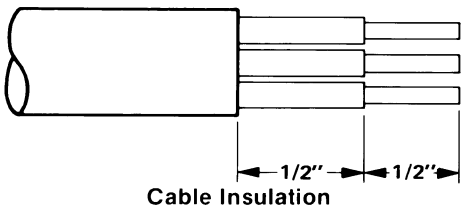
1. Disassemble connector by loosening cable clamp set screw and unscrewing cable clamp assembly then removing slip washer and cable bushing.

2. Loosen setscrew in receptacle body, then unscrew receptacle (with spring door) to expose contact terminals.

3. Select #12 or #14 AWG Type S, SO, ST or STO cable with range of .375 through .625 inches diameter. Do not use cable of smaller diameter, or conductors smaller than #14 AWG.

4. Loosen cable clamp screws, then pass cable through cable clamp assembly, slip washer, cable bushing and receptacle body.

5. Strip outer cable jacket and then conductor insulation to dimensions shown below:



Cable Insulation

CAUTION
Conductors are identified by the color of insulation on each conductor. These colors agree with those given in Section 210-5 of National Electrical Code for multi-wire branch circuits; an additional wire in the cable, uninsulated or identified green, is for grounding and complies with Sections 250-42 and 250-45 of National Electrical Code. If conductors are not identified with exactly these colors, these colors may be assumed in making proper connections. Lacking positive color identification; test electrically.

6. Loosen contact screws, then insert each conductor into contact recess following Table below or established system wiring pattern. All wire strands must be contained in contact wire wells. Tighten contact screws to 20 in. lb. torque.

Color of Wire in Cable	Numbers on Insulator Body
White*	Contact #2
Black	Contact #1
Green	Grounding Contact (G)

* White wire or terminal must not be used for grounding. If portable cable contains an uninsulated wire, or one identified green, this wire is for grounding the portable device. If no green or bare wire is in the portable cable, another wire may be connected through plug and receptacle connections to conduit or some other non-current-carrying conductor permanently grounded in accordance with Article 250 of the National Electrical Code.

Note: All installations **must be** electrically tested to assure proper polarity of conductors between plugs, receptacles and connectors.

7. Reassemble CPR connector by screwing receptacle body and receptacle together. Tighten set screw.

8. Slide cable bushing, slip washer and cable clamp assembly over cable and thread onto receptacle body. Press cable firmly into body to relieve strain on connector/contact connections and tighten cable clamp assembly. Secure with set screw.

9. Tighten cable clamp assembly screws to complete assembly.

HOW TO OPERATE

CPR cable connector receptacle is a delayed-action connector. Electrical connection between it and a CPP plug is completed by a two-stage insertion.

1. Open cover door and locate polarization arrows on mating plug sleeve and connector face. Align arrows on plug and connector (make sure that interlock lever is fully to the left-counter-clockwise) before inserting plug into connector. Insert plug straight in until it can go no further.

2. While maintaining a slight inward pressure on plug, move interlock lever on connector (clockwise) to the right until it stops. This locks plug into connector so it cannot be removed.

3. Push plug straight in until it is completely seated in connector and closes electrical circuit.

4. To open circuit and remove plug, reverse the preceeding steps.

MAINTENANCE

Perform visual, electrical and mechanical checks of all components on a regular schedule. This should be determined by the environment and frequency of use but it is recommended that it should be at least once a year.

WARNING

If any part of the plug and/or connector appears to be broken or shows signs of any damage;

DISCONTINUE USE IMMEDIATELY.

Replace or properly repair the item(s) before continuing service.

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