

EBY Series Portable Cord Connector

Installation & Maintenance Information

IF 389

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE



APPLICATION

EBY Series Connectors are designed to provide means for passing cord into an enclosure, through a bulkhead or into a rigid conduit in hazardous areas to form a non-slip connection or termination.

EBY Series Connectors may be used in Class I, Groups B, C, D and Class II, Groups F, G hazardous (classified) locations as defined by the National Electrical Code®.

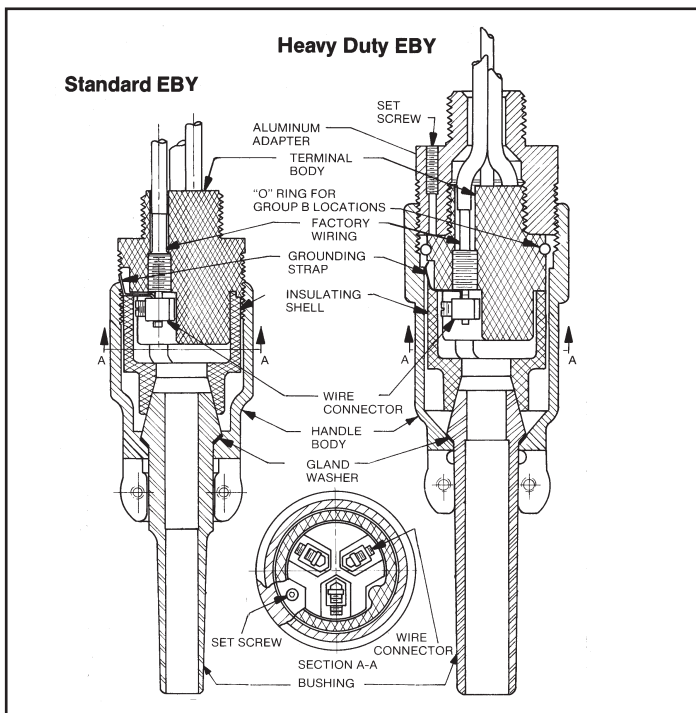


Figure 1
EBY Connector - Cutaway Views

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INSTALLATION

⚠ WARNING

To avoid electrical shock hazard, all electrical power must be turned OFF before and during installation and maintenance.

EBY Connectors:

1. Remove handle body, gland washer, bushing and insulating shell from terminal body and aluminum adapter.
2. Loosen set screw in terminal body and remove aluminum adapter.
3. Install aluminum adapter into either hub or threaded wall opening. Hole must accept $\frac{3}{4}$ x 14 NPT gage to six full turns. If gage is not available, adapter must enter far enough to have five full threads engaged when using a maximum applied torque of 25 foot pounds.
4. Securely tighten socket head set screw in aluminum adapter against enclosure wall or other anchoring position to prevent movement.
5. Install and securely tighten terminal body onto aluminum adapter. Tighten socket head set screw in terminal body against aluminum adapter to prevent movement. Bend grounding strap outward from terminal body slightly to provide better contact later.

CORD CONNECTION

1. Loosen cord clamp screws on handle body. Push handle body, gland washer, bushing and insulating shell onto cord that is to be attached to connector.

CAUTION

Use three conductor cord #18 through #12 AWG, Types S, SO, ST or STO only.

| Cord Dia. (In.) | Bushing Number | EBY Cord Connector |
|---------------------------------|----------------|--------------------|
| $\frac{1}{4}$ to $\frac{7}{16}$ | 013 | EBY2672 |
| $\frac{3}{8}$ to $\frac{1}{2}$ | 014 | EBY2682 |
| $\frac{1}{2}$ to $\frac{5}{8}$ | 015 | EBY26012 |

2. Strip outer cord jacket for desired length of individual conductors. Strip individual leads insulation to fit into pressure connectors on terminal body. Insert grounding conductor to connector with strap, white lead to steel colored connector and black lead to brass colored connector. Securely tighten pressure connectors on each conductor.
3. Slide bushing and insulating shell up against terminal body and tighten handle body onto adapter securely.

4. While tightening the cord clamp screws, push in on cord to relieve possible strain on the pressure connectors in terminal body.

IMPORTANT

Adapter, terminal body, handle body joint threads, and any screw threads which extend through the adapter and bodies, have been treated at the factory with Crouse-Hinds STL screw thread lubricant. This is both a lubricant and anti-seize agent, adding to the rain-tight construction. Whenever these joints are disassembled, threads should be treated with STL before reassembly and care being exercised in mating parts properly.

SPECIFICATIONS

Cord Connector: 20 Amperes, 460 VAC/DC

Pigtail Leads: Three 12 inch long conductors, #12 Type SF-2 (150°C rating)

ELECTRICAL TESTING

Do Not connect the power until the following electrical tests have been performed.

- Make continuity checks of wiring to verify correct phasing and grounding connections.
- Check insulation resistance to be sure system does not have any short circuits or unwanted grounds.

MAINTENANCE

 **WARNING**

If any part of the cord connector appears to be broken, or shows signs of damage, discontinue use immediately. Replace or properly repair the cord connector before continuing service.

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

In addition, we recommend an Electrical Preventive Maintenance program as described in the National Fire Protection Association Bulletin NFPA No. 70B.

All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Crouse-Hinds "Terms and Conditions of Sale", and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.
