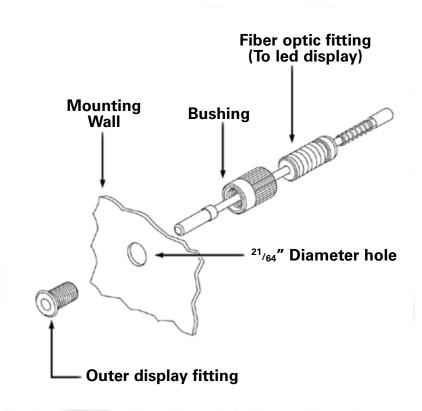
COOPER POWER SERIES

S.T.A.R.™ Fiber optic cable installation instructions





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Safety for life



Eaton's Cooper Power series products meet or exceed all applicable industry standards relating to product safety. We actively promote safe practices in the use and maintenance of our products through our service literature, instructional training programs, and the continuous efforts of all Eaton employees involved in product design, manufacture, marketing and service.

We strongly urge that you always follow all locally approved safety procedures and safety instructions when working around high-voltage lines and equipment and support our "Safety For Life" mission.

Safety information

The instructions in this manual are not intended as a substitute for proper training or adequate experience in the safe operation of the equipment described. Only competent technicians, who are familiar with this equipment should install, operate and service it.

A competent technician has these qualifications:

- Is thoroughly familiar with these instructions.
- Is trained in industry-accepted high- and low-voltage safe operating practices and procedures.
- Is trained and authorized to energize, de-energize, clear, and ground power distribution equipment.
- Is trained in the care and use of protective equipment such as flash clothing, safety glasses, face shield, hard hat, rubber gloves, hotstick, etc.

Following is important safety information. For safe installation and operation of this equipment, be sure to read and understand all cautions and warnings.

Hazard Statement Definitions

This manual may contain four types of hazard statements:

DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in equipment damage only.

Safety instructions

Following are general caution and warning statements that apply to this equipment. Additional statements, related to specific tasks and procedures, are located throughout the manual.



DANGER

Hazardous voltage. Contact with high voltage will cause death or severe personal injury. Follow all locally approved safety procedures when working around high- and low-voltage lines and equipment.



WARNING

Before installing, operating, maintaining, or testing this equipment, carefully read and understand the contents of this manual. Improper operation, handling or maintenance can result in death, severe personal injury, and equipment damage.



WARNING

This equipment is not intended to protect human life. Follow all locally approved procedures and safety practices when installing or operating this equipment. Failure to comply may result in death, severe personal injury and equipment damage.



WARNING

Power distribution and transmission equipment must be properly selected for the intended application. It must be installed and serviced by competent personnel who have been trained and understand proper safety procedures. These instructions are written for such personnel and are not a substitute for adequate training and experience in safety procedures. Failure to properly select, install, or maintain power distribution and transmission equipment can result in death, severe personal injury, and equipment damage.

A CAUTION

The Eaton Cooper Power series S.T.A.R.™ faulted circuit indicators are designed to be operated in accordance with normal safe operating procedures. These instructions are not intended to supersede or replace existing safety and operating procedures. Read all the instructions before installing the faulted circuit indicator.

Faulted circuit indicators should be installed and serviced only by personnel familiar with good safety practice and the handling of high-voltage electrical equipment. Improper operation, handling, or maintenance can result in death, severe personal injury, and equipment damage.

Product information

The Eaton Cooper Power series S.T.A.R. Fiber Optic Cable can be used to provide remote fault indication for the LED display on the S.T.A.R. Delayed Reset (DR) and Variable Trip Test Point Reset faulted circuit indicators (FCI). The cable is easily installed by pushing the fiber optic fitting onto the LED display of the FCI housing and attaching the remote display to the enclosure wall using the fittings provided.

Installation procedures

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Installation instructions for remote fiber optic display

WARNING

The Eaton Cooper Power series S.T.A.R. Faulted Circuit Indicator with remote display and/or auxiliary contact outputs are designed for installation at Ground Potential Only. Remote indicators and auxiliary contacts are not insulated for high voltage application. If high voltage is applied across the fault indicator, flashover may occur, possibly resulting in death, severe personal injury, and equipment damage.

 Drill one 21/64 inch diameter hole as shown in Figure 1. Hole rim may need to be treated for corrosion

- resistance. Consult enclosure manufacturer for recommendation.
- Ensure that the fiber optic fitting has been snapped onto the LED display of the FCI housing. If this was not done prior to installing the FCI on a live elbow, use gloved hands to snap the fiber optic fitting of the remote display cable onto the LED display of the FCI.

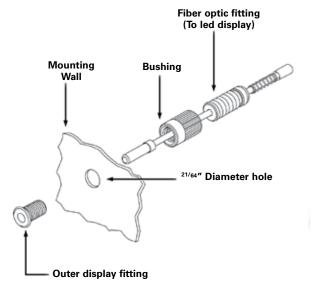


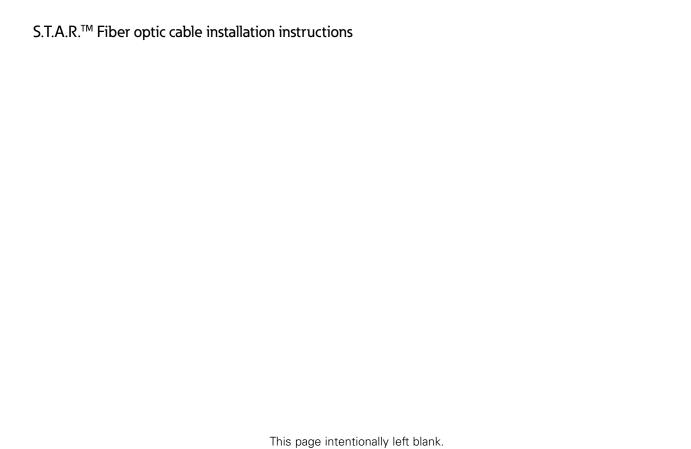
Figure 1. Remote fiber optic cable display installation diagram

- 3. **Insert the outer fitting** through the 21/64 inch diameter hole with the threads extending through the hole in the enclosure.
- Insert the end of the fiber optic cable into the outer display fitting.
- Thread the bushing at the end of the fiber optic cable, onto the outer fitting.
- Adjust the display to the desired alignment and tighten the nut to pull the outer fitting against the front of the enclosure. Tighten sufficiently to prevent removal of the outer fitting from outside the cabinet, but do not overtighten the nuts.

These instructions do not claim to cover all details or variations in the equipment, procedure, or process described, nor to provide directions for meeting every contingency during installation, operation, or maintenance. When additional information is desired to satisfy a problem not covered sufficiently for the user's purpose, contact your Eaton representative.

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