Bonding and Grounding with 3M™ High-performance Armored Fiber Cable

Instructions:

Note: Examine box contents and ensure that all necessary components are present and that they are in a usable and defect-free condition.

1.0 General

1.1 3M™ High-performance Armored Fiber Cable is supplied with 3M™ Scotchlok™ Shield Bond Connectors 4460-D that enable each cable to be safely and easily bonded and grounded to a common ground location.

2.0 Installation

Note: On cables or cable ends without a pulling sock installed skip to step 2.4.

2.1 Using the installed “rip-cord” remove the heat shrink tubing used to secure the pulling sock to the cable jacket.

2.2 Install the cable into the desired cable entry location on the enclosure. Install such that approximately 1.5 in. of the cable armor and jacket extend past the strain relief location.

2.3 Untie the aramid yarn strands and completely remove pulling sock from end of cable.

2.4 Using the installed “rip-cord,” remove the heat shrink tubing from the end of cable jacket.

2.5 Insert 4460-D connector base between the cable armor and protective spiral tubing until the connector body is flush with the end of the cable armor as shown.

2.6 When using pre-terminated ground wire:

2.6.1 Place ground wire eyelet between the 4460-D connector base and the connector top as shown.
2.6.2 Secure the 3M™ Scotchlok™ Shield Bond Connector 4460-D top using the supplied nut. Torque to 35-45 in-lbs (4.0-5.2 kgm).

2.6.3 Attach the opposite end of the ground wire to the common bond or ground of the enclosure.

2.7 When using bond braid or additional grounding hardware:

2.7.1 Secure the 4460-D connector top using the supplied nut. Torque to 35-45 in-lbs (4.0-5.2 kgm).

2.7.2 Place braid atop nut and secure with the second nut. Torque to 35-45 in-lbs (4.0-5.2 kgm).

2.7.3 Attach the opposite end of the ground braid to the common bond or ground of the enclosure.