IQ plus® 510/710 Digital Weight Indicators

Cabling for Metal Cord Grips

Indicator PNs 52051, 52052, 52053, 52054

CE-approved versions of the IQ plus 510/710 indicators are fitted with metal cord grips for load cell, serial communications, and digital I/O cables. Use the following procedure when cabling through the metal cord grips for these indicators:

1. Disconnect indicator from power source.
2. Place indicator face-down on an antistatic work mat. Remove screws that hold the backplate to the enclosure body.

Warning *Disconnect power before removing indicator backplate.*

Caution *Use a wrist strap to ground yourself and protect components from electrostatic discharge (ESD) when working inside the indicator enclosure.*

3. Loosen cord grips, then route cables through cord grips. Determine cable length required to reach the connector for each cable. Mark each cable at the inside edge of the cord grip (see Figure 1).

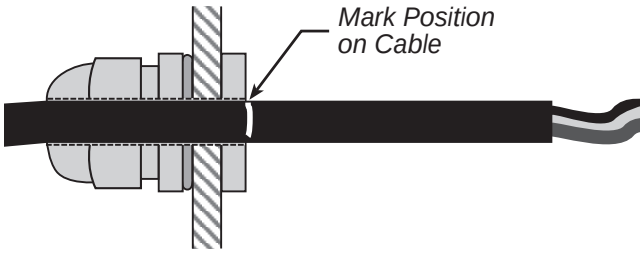

Figure 1. Mark Length of Cable at Inside of Cord Grip

4. Remove cables from cord grips. Strip insulation from the marked position to the end of the cable.
5. For cables with braided shielding, cut the shield at the same location as the insulation, then strip an additional 15 mm of insulation from the cable to allow the shield to contact the inside of the metal cord grip (see Figure 2).

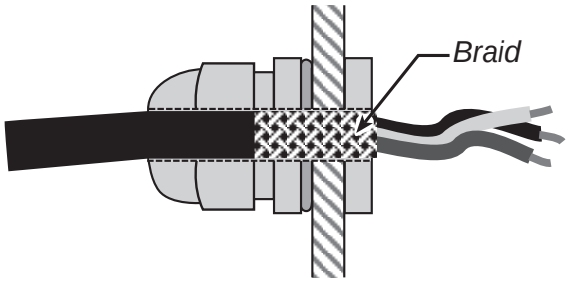

Figure 2. Braided Shield Cabling

For cables with foil-type shielding, strip an additional 15 mm of insulation from the cable. Cut the foil shield at a location about 15 mm *inside* the enclosure, then fold the foil shield back on the cable (see Figure 3). Ensure silver (conductive) side of foil is turned outward for contact with the metal cord grip.

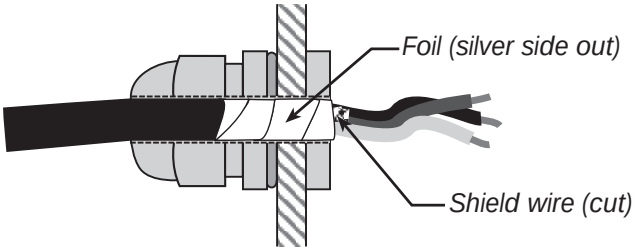

Figure 3. Foil Shielded Cabling

6. For load cell cables, cut the shield wire just inside the enclosure (see Figure 3). Shield wire function is provided by contact with the metal cord grip.
7. Route cables through cord grips so cable shield contacts cord grip fitting as shown in Figures 2 and 3. Tighten cord grips.
8. Finish installation using cable mounts and ties to secure cables inside of indicator enclosure.