

## For AirCell® Metal Raceway (MR) Series 1/2" 50 Ohm Cables

2G

For use with **Metal Raceway Rotary Cutting Tool MRCT**

AirCell® Metal Raceway (MR) Series cables are designed for use with any standard NEC compliant 3/4" MC/AC fittings, connectors, hangers, clamps, straps, and accessories for connection of the raceway to other electrical components.

**Instructions should be read thoroughly prior to connector installation.**

**Metal Raceway Rotary Cutting Tool\* (MRCT)** (Figure 1)

**Additional Tools Required** (Figure 2)

Diagonal Cutting Pliers

Pulling Grip (HG-78L)

Electrical Tape

### Prepare Cable for Pulling

- 1) **Cut 2" of raceway with the cutting tool\*.** Back-out thumb screw and insert cable into tool channel. Hold cable firmly inside channel and hand-tighten thumb screw to fit the clamping stud into the helical groove of the raceway (Figure 3). Slide the top cutting mechanism to the forward position (Figure 3). Squeeze tool while rotating the crank handle to cut through the raceway. Release pressure on tool, slide mechanism to the rear position (Figure 4), and repeat the cutting action. Remove tool from the cable. Twist and slide to remove the raceway section from the cable (Figure 5). Cut the remaining sharp point on the raceway with diagonal cutters (Figure 6).
- 2) **Wrap the cable** with electrical tape starting at the coaxial cable end and wrapping 3 inches onto the raceway (Figure 7).
- 3) **Slide** the pulling grip completely over the raceway (Figure 8a). **Secure** the grip to the raceway by **tightening** it. Wrap the entire length of the grip with electrical tape and continue for an additional 6 inches onto the raceway (Figure 8b).

### Cable Routing

- 4) **Pull cable and mount** with appropriate hangers spaced at 5 to 6 ft intervals. Additional hangers may be required to route the cable around corners or other obstructions. **Remove** tape and grip from the cable once cable is in position.

### Metal Raceway Attachment

- 5) **Cut the raceway with the cutting tool** (see Step 1) to expose a minimum of 2 ft of coaxial cable (Figure 9). This will enable proper routing and allow adequate clearance to access the coaxial cable for connectorization once the raceway is attached. Additional coaxial cable may need to be exposed to accommodate electrical boxes, panels, or other mechanical routing constraints. Care must be taken to not damage the coaxial cable during raceway removal or when routing to or within other electrical components.
- 6) **Attach the raceway** by routing the cable into the intended box or connection and secure raceway with the appropriate fitting (Figure 10). Care must be taken to avoid bending the coaxial cable against the end of the raceway, fittings, electrical box openings, etc. Only straight fittings can be used for raceway attachment. 90° or other angled fittings are not compatible and will damage the coaxial cable.

### Coaxial Cable Connectorization

- 7) **Install the coaxial cable connector** per instructions for AirCell® Plenum 1/2" Cable with Power Tool (PCT012-2), Connector Installation Instruction #2.

\*Refer to instructions included with the Metal Raceway Rotary Cutting Tool for additional operating details.

Notice: Trilogy disclaims any liability or responsibility for the results of improper or unsafe installation, inspection, maintenance, or removal practices.

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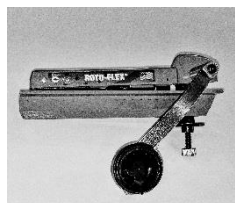


Figure 1

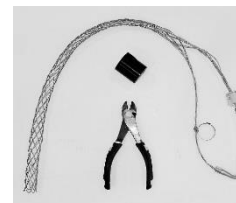


Figure 2

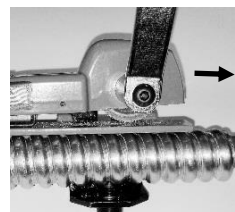


Figure 3

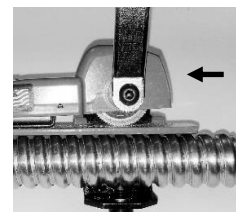


Figure 4



Figure 5



Figure 6



Figure 7

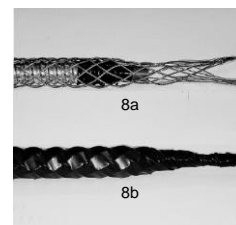


Figure 8



Figure 9



Figure 10