



MCK-L

1000V Flame-Retarded Motor (In-line) Connection Kits for 1/C Low-Voltage Power Cable

General Instructions

Suggested Installation Equipment (not supplied with kit)

- Cable preparation tools
- Raychem P42 cable preparation kit or cable manufacturer approved solvent
- Clean, lint-free cloths
- Lug(s) and installation tools
- Raychem recommended torch

Recommended Raychem Torches

Install heat-shrinkable cable accessories with a "clean burning" torch, i.e., a propane torch that does not deposit conductive contaminants on the product.

Clean burning torches include the Raychem FH-2609, FH-2629 (uses refillable propane cylinders) and FH-2616A1 (uses disposable cylinder).

Safety Instructions

Warning: When installing electrical power system accessories, failure to follow applicable personal safety requirements and written installation instructions could result in fire or explosion and serious or fatal injuries.

To avoid risk of accidental fire or explosion when using gas torches, always check all connections for leaks before igniting the torch and follow the torch manufacturer's safety instructions.

To minimize any effect of fumes produced during installation, always provide good ventilation of confined work spaces.

Adjusting the Torch

Adjust regulator and torch as required to provide an overall 12- inch bushy flame. The FH-2629 will be all blue, the

other torches will have a 3- to 4-inch yellow tip. Use the yellow tip for shrinking.

Regulator Pressure

| | |
|-----------|---------------|
| FH-2616A1 | Full pressure |
| FH-2609 | 5 psig |
| FH-2629 | 15 psig |

General Shrinking Instructions

- Apply outer 3- to 4-inch tip of the flame to heat-shrinkable material with a rapid brushing motion.
- Keep flame moving to avoid scorching.
- Unless otherwise instructed, start shrinking tube at center, working flame around all sides of the tube to apply uniform heat.

To determine if a tube has completely recovered, look for the following, especially on the back and underside of the tube:

1. Uniform wall thickness.
2. Conformance to substrate.
3. No flat spots or chill marks.
4. Visible sealant flow if the tube is coated.

Installation Instructions

1. Product selection.

Check kit selection with cable diameter dimensions in Table 1.

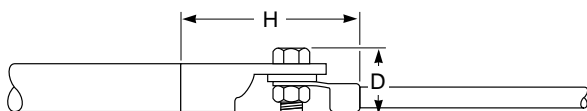


Table 1

| Kit | Motor Feeder Conductor Size | Bolt Length Max (D) | Connection Length Max (H) |
|--------|-----------------------------|---------------------|---------------------------|
| MCK-1L | #8-4/0 AWG | 1-1/4" (30mm) | 5.0" (125mm) |
| MCK-2L | 250-1000 kcmil | 1-1/2" (35mm) | 8.0" (205mm) |

Installation Instructions

Note: MCK insulating sleeves are designed to accommodate the largest lugs normally used. However, many installations require shorter sleeves due to space limitations. MCK can be trimmed to any desired length as long as the following rules are observed.

- The cuts must be clean with no jagged edges.
- The sleeve length must be sufficient to completely cover the mastic strips – approximately 1-1/2" (40mm) beyond the end of each lug barrel.

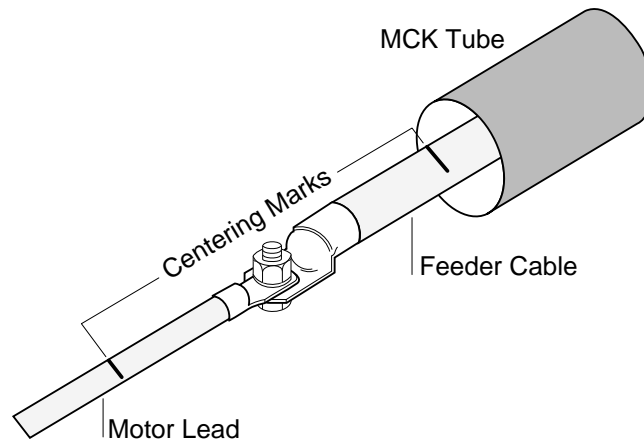
2. Position tube; install lugs; mark cable.

Slide tube over feeder cable.

Install lug on feeder cable and motor lead. Bolt connection tight. Bolts should be inserted through the tang of the largest lug first.

Center tube over connection area and mark end positions on the cables.

Move tube back over feeder cable.



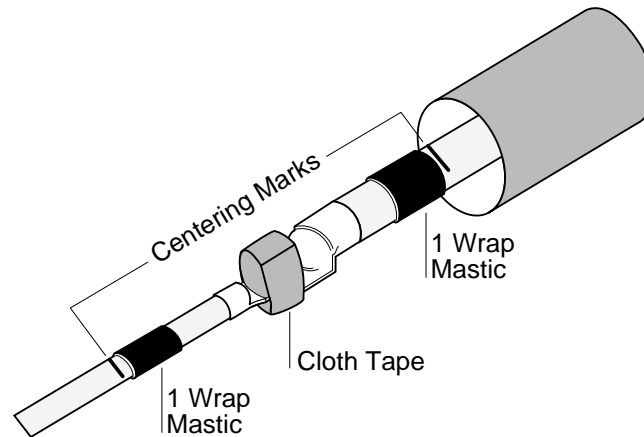
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Note: If a rotation check is desired, place tube over the connection area to provide temporary insulation while bumping the motor. **Do not shrink.** After check, slide tube back over feeder cable and proceed to next step.

3. Apply cloth tape to lug; apply mastic to cable jackets.

Wrap the bolt area with a cloth tape strip to keep the hardware clean.

Remove release papers from mastic strip. Make one complete wrap at the end of each lug barrel, just inside the marks made in Step 2.



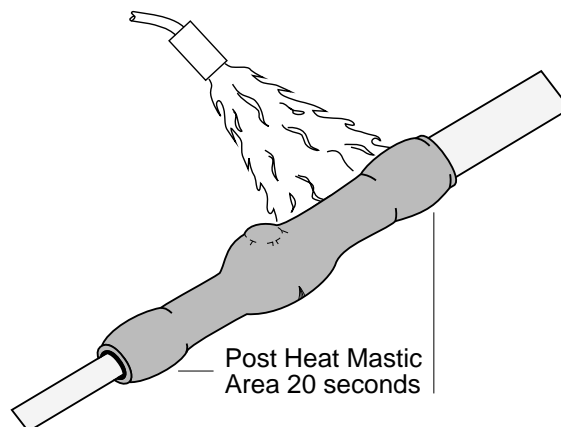
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4. Position tube; shrink in place.

Center tube over connection area. Begin shrinking in center of tube, working torch with a smooth, brushing motion around all sides of tube. Continue to each end as the tube shrinks and conforms to the cable contours.

Post heat mastic area approximately 20 seconds after cap has fully shrunk.

Installation is complete.



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