



Cold Shrink™ Quick Term II 5670-I Series (5640 Series) Instruction Sheet

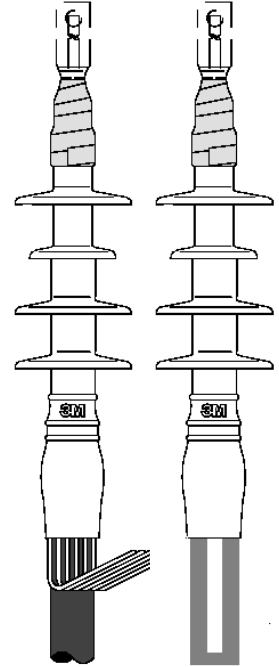
Instructions

12/20 (24) kV for Indoor Application

6/10(12) kV for Outdoor Application

Kit Contents (3 phase):

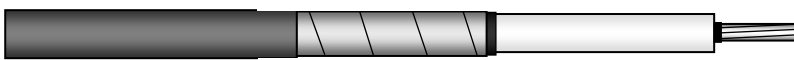
- 3 Cold Shrink Rubber Mold Assemblies
- 3 Packets of Silicone Grease
- 3 Strips Scotch of 70 Silicone Rubber Tape
- 3 Strips Scotch of 13 Semi-conducting Tape
- 3 Strips of Mastic
- 1 Roll of Vinyl Tape
- 3 Each of Ground Strap Assembly (for Tape Shield cable)
- 1 Instruction Sheet



Product Number	Primary Insulation O.D. Range (mm)	Voltage Class (kV)	Conductor Size Range (mm ²)
5670-I (5641) 5670-I-K (5642)	16.2-28.4 21.3-35.0	12/20(24)	35-70 95-185
5671-I (5643) 5671-I-M (5644)	27.4-45.7 33.3-53.3		240-400 500-800
5670-I (5641) 5670-I-K (5642)	16.2-28.4 21.3-35.0	6/10(12)	70-150 185-300
5671-I (5643) 5671-I-M (5644)	27.4-45.7 33.3-53.3		400-630 800-1000



Wire Shield Cable



Tape Shield Cable

3M Quick Term II

5670-I (5640) Series

12/20(24) kV

6/10(12) kV

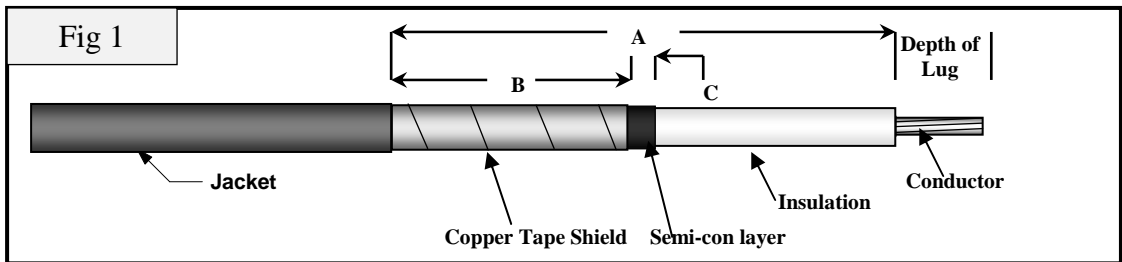
09-5670-I-013TH

For Tape Shield Cable

A. Prepare Cable

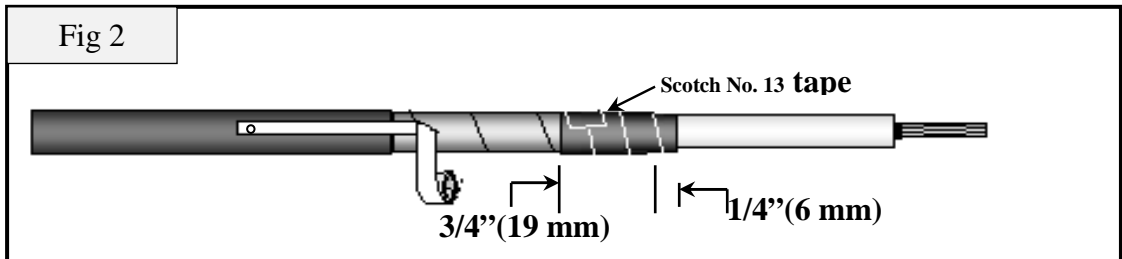
1. Prepare cable to the dimensions shown in Fig. 1 as per table below.

Product	A	B	C
5670-I 5670-I-K	195 mm	50 mm	6 mm
5671-I 5671-I-M	205 mm	50 mm <td 6 mm	



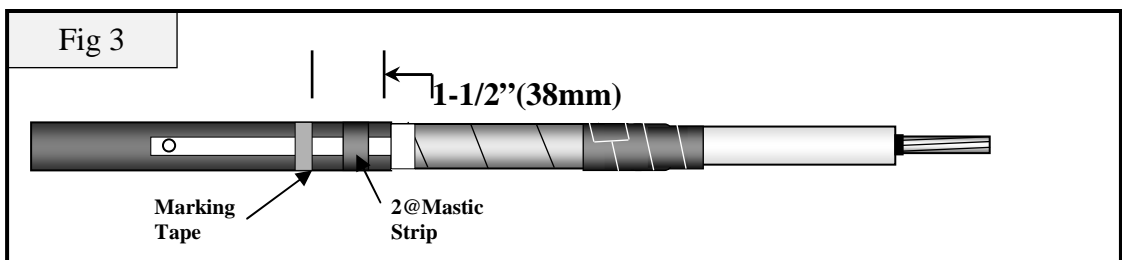
B. Install Ground Strap

1. Wrap 2 highly stretched half-lapped layers of Scotch™ 13 Semi-Conductive Tape over the ends of the tape shield and semi-con. Start and end taping $\frac{3}{4}$ " (19 mm) onto tape shield leaving a smooth, even leading edge $\frac{1}{4}$ " (6 mm) onto cable insulation (Fig 2.).
2. Unwrap 1" to 2" (25 to 50 mm) of coil.
3. Lay the ground strap along cable with extended coil facing down (away from you). Coil should be in contact with cable shielding and close as possible to the cable jacket end (Fig 2.).

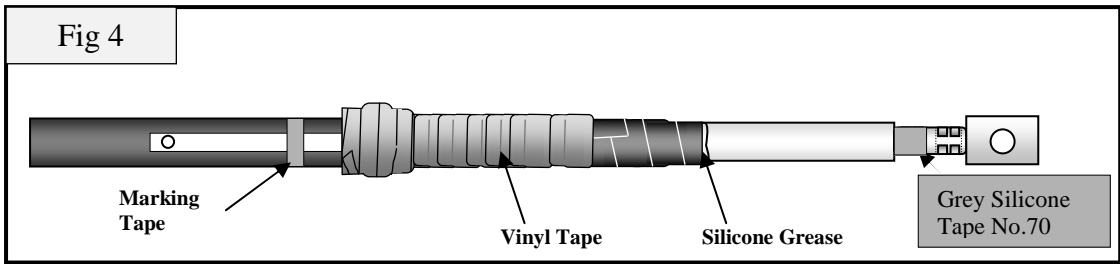


4. Sealing Ground Strap

Apply mastic strip by wrapping 1 layer around the cable jacket (under grounding strap tail) and as close as possible to cable jacket. Push strap into mastic and wrap the second mastic strip over ground strap. Cut off excess. Apply marking tape 1-1/2" (38mm) back from jacket cut edge (Fig 3.).



- Wrap 1 half-lapped layer of highly stretched vinyl tape over applied mastic strip and ground strap coil, to edge of previously applied #13 tape (Fig 4).



A. Install Terminal Lug

- Remove cable primary insulation for terminal lug (lug barrel depth + allowance for crimp expansion). Install lug according to manufacturer's recommendations (Fig 4.).
 - Clean cable primary insulation and lug area according to normal practice.
- Note: DO NOT allow solvent to contact Scotch™ 13 tape or cable semi-conductive layer.
- Cover the edge of the 13 tape with a liberal coating of silicone grease (Fig 4.). The silicone grease may also be used to fill in cable surface defects and can be applied over the ground strap seal to aid in core removal.

CAUTION : Do not forget to apply silicone grease.

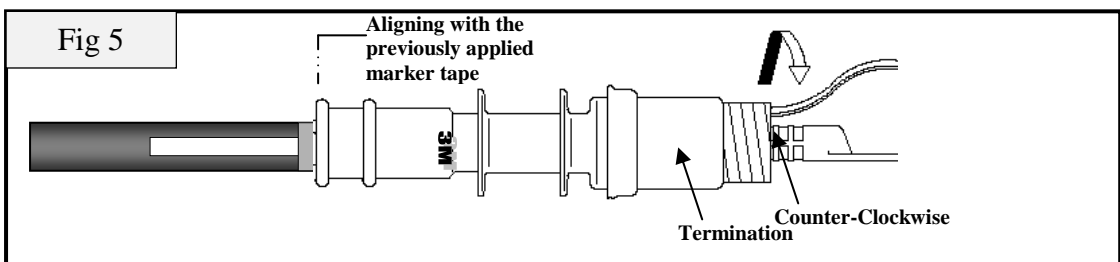
- Using Gray Scotch 70 Silicone Rubber Tape strip (1st), wrap a band of silicone tape around the base of terminal lug.

Note : If barrel diameter is equal to or greater than primary insulation, the tape band should not exceed two layers.

If barrel diameter is smaller than the cable primary insulation, use one full tape strip to form the tape band.

B. Install Termination

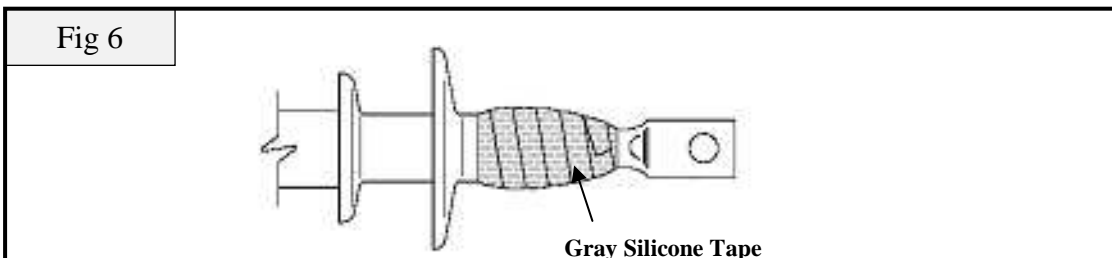
- Slide the termination body onto cable, aligning the base with previously applied marker tape (Fig 5.).
- Remove termination core unwinding counter-clockwise starting with the loose end. Make sure the termination body is butted up to the edge of marker tape (Fig 5.).



- With termination installed, ,Apply four half-lapped layer with remaining Grey Silicone tape Scotch 70 over a non -crimped area of the lug and onto the insulator for 1”(25 mm). Start and end taping on the lug barrel (Fig 6.).

CAUTION : Using moderate tension of Tape No.70 and apply last wrap with zero stretch and press down to avoid end lifting.

- Remove marking Tape

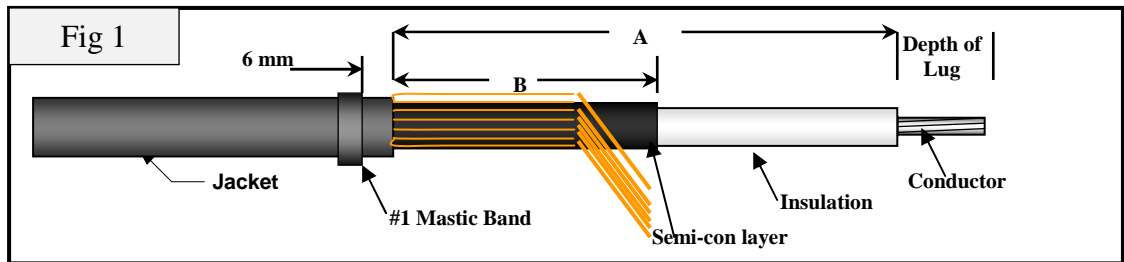


For Wire Shield Cable

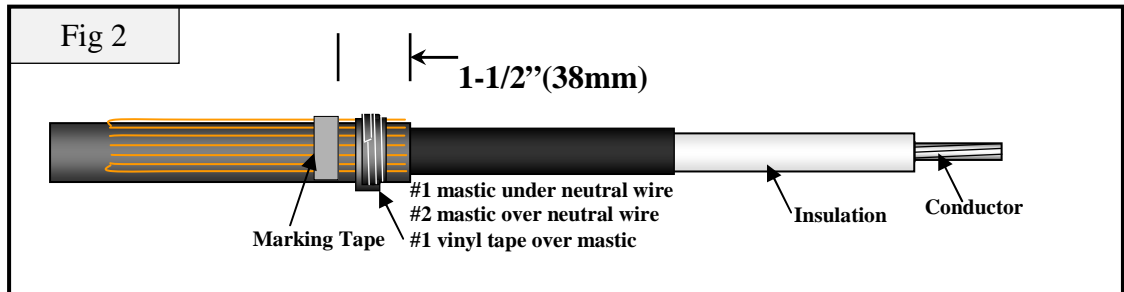
A. Prepare Cable

1. Prepare cable to the dimensions shown in Fig. 1 as per table below.

Product	A	B
5670-I 5670-I-K	195 mm	56 mm
5671-I 5671-I-M	205 mm	56 mm



2. Cut first mastic strip. Using light tension, wrap a band of mastic around cable jacket ¼” (6mm) from cut edge (Fig 1.).
3. Fold neutral wire back over applied mastic strip and secured to cable jacket below cut edge by using vinyl tape (Fig 2.).



4. Select 2nd mastic and remove release liner. Using light tension, wrap a band of mastic over the neutral wires and previous applied mastic (Fig 2.).
5. Over-wrapping two strips of mastics by two highly stretched layer of vinyl tape (Fig 2.).
6. Apply marking tape 1-1/2” (38mm) back from jacket cut edge (Fig 2.).

B. Install Terminal Lug

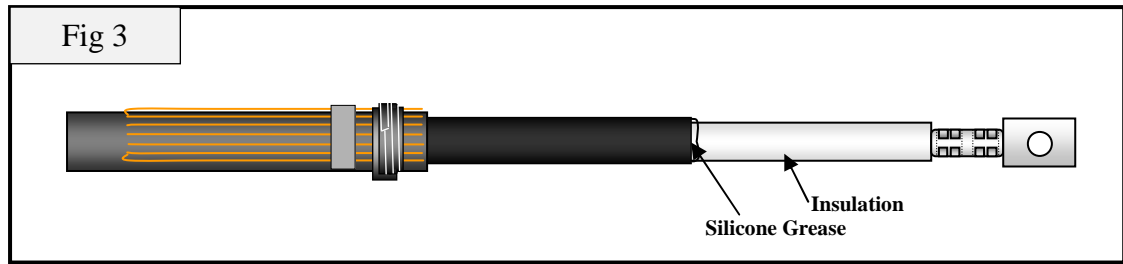
1. Remove cable primary insulation for terminal lug (lug barrel depth + allowance for crimp expansion). Install lug according to manufacturer’s recommendations (Fig 3.).
2. Clean cable primary insulation and lug area according to normal practice.

Note: DO NOT allow solvent to contact cable semi-conductive layer.

3. Cover the edge of the semi-con layer with a liberal coating with silicone grease (Fig 3.). The silicone grease may also be used to fill in cable surface defects and can be applied over the ground strap seal to aid in core removal.
4. Using Gray Scotch 70 Silicone Rubber Tape strip (1st), wrap a band of silicone tape around the base of terminal lug.

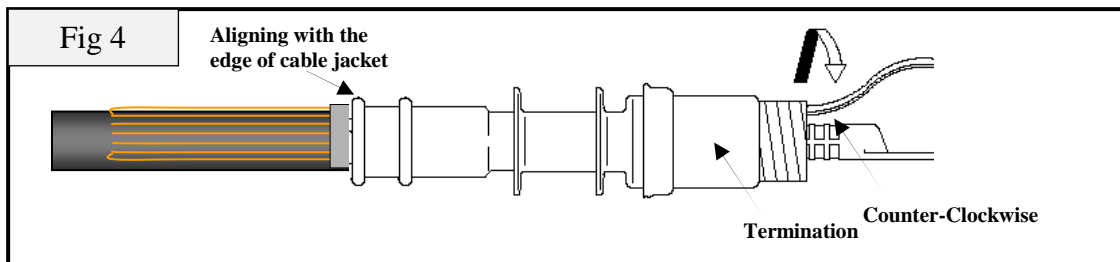
Note : If barrel diameter is equal to or greater than primary insulation, the tape band should not exceed two layers.

If barrel diameter is smaller than the cable primary insulation, use one full tape strip to form the tape band



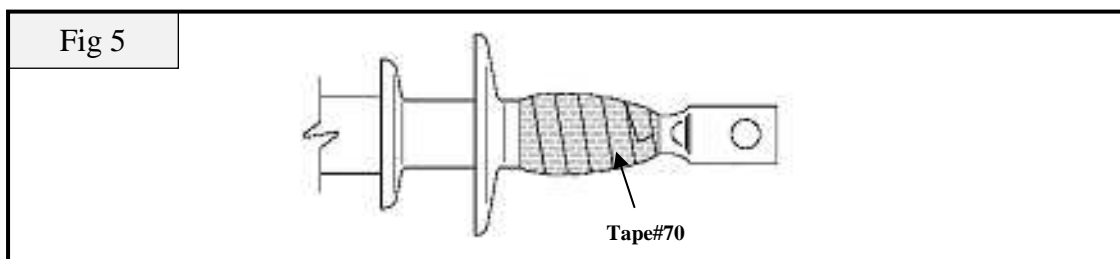
C. Install Termination

1. Slide the termination body onto cable, aligning the base with previously applied marker tape (Fig 4.).
2. Remove termination core unwinding counter-clockwise starting with the loose end. Make sure the termination body is butted up to the edge of marking tape (Fig 4.).



3. With termination installed, Apply four half-lapped layer with remaining Grey Silicone tape Scotch 70 over a non -crimped area of the lug and onto the insulator for 1”(25 mm). Start and end taping on the lug barrel (Fig 6.).

CAUTION : Using moderate tension of Tape No.70 and apply last wrap with zero stretch and press down to avoid endlifting.



4. Remove marker tape