

## 3M 5650 Silicone Rubber Termination Kits

Category : Polymer , Thermoset , Silicone , Silicone Rubber

### Material Notes:

3M™ 5640 and 5650 Series Quick Term II Silicone Rubber Termination Kits are one-piece Cold Shrink™ terminations for Jacketed Concentric Neutral (JCN) power cable. They meet the requirements of IEEE standards 48-1990, for class I terminations. In addition they meet German standard VDE 0278 parts 5 & 100, British standard A-B-N-T-9314. Similar terminations using Quick Term II technology meet French EdF standards HN 33-E-01 and HN 41-E-01. The 3M Quick Term II consists of a high dielectric constant (high-K) stress control tube insulated with a molded silicone skirted insulator. There is a four skirt design rated 15 kV, a six skirt design rated 25/28 kV and eight skirt design rated 34.5 kV. Each insulator design incorporates an extended base feature which when combined with mastic ensures a seal at the cable jacket end where the cable neutral wires are brought out. Quick Term II terminations are provided in an expanded state, mounted on a removable inner supporting plastic core. As supplied in this pre-stretched condition the termination is ready for field installation. During installation the core is unwound, allowing termination to shrink and form a tight seal. Collectively, these termination kits cover cables with primary insulation OD from 0.637" to 2.30" (16.2-58.4 mm) and with cable jacket OD from 0.93"-2.75" (23.6-70.0 mm). These kits can be used to terminate Jacketed Concentric neutral (JCN) power cables from: 4 AWG to 2000 kcmil at 15 kV, 2 AWG at 1750 kcmil at 25 kV and 1 AWG to 1500 kcmil at 34.5 kV. Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-5650-Silicone-Rubber-Termination-Kits.php](http://www.lookpolymers.com/polymer_3M-5650-Silicone-Rubber-Termination-Kits.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	8.27 MPa	1200 psi	Silicone Rubber Insulator; ASTM D42
	9.611 MPa	1394 psi	EPDM Rubber Hi-K Stress Control Tube; ASTM D42

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.7	2.7	Silicone Rubber Insulator; ASTM D150
	@Temperature 130 °C	@Temperature 266 °F	
	3.0	3.0	Silicone Rubber Insulator; ASTM D150
	@Temperature 90.0 °C	@Temperature 194 °F	
	3.4	3.4	Silicone Rubber Insulator; ASTM D150
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	20	20	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	24	24	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150
	@Frequency 10000 Hz	@Frequency 10000 Hz	
	29	29	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150

Electrical Properties	@Frequency 1000 Hz Metric	@Frequency 1000 Hz English	Comments
	35	35	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150
	@Frequency 150 Hz	@Frequency 150 Hz	
	24.5	24.5	EPDM Rubber Hi-K Stress Control Tube, 400 V at 60% Strain; ASTM D150
	@Frequency 60.0 Hz, Temperature 65.0 °C	@Frequency 60.0 Hz, Temperature 149 °F	
	25.2	25.2	EPDM Rubber Hi-K Stress Control Tube, 400 V at 60% Strain; ASTM D150
	@Frequency 60.0 Hz, Temperature 90.0 °C	@Frequency 60.0 Hz, Temperature 194 °F	
	25.7	25.7	EPDM Rubber Hi-K Stress Control Tube, 400 V at 60% Strain; ASTM D150
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	
	27.2	27.2	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150
	@Frequency 60.0 Hz, Temperature 65.0 °C	@Frequency 60.0 Hz, Temperature 149 °F	
	27.7	27.7	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150
	@Frequency 60.0 Hz, Temperature 90.0 °C	@Frequency 60.0 Hz, Temperature 194 °F	
	28.8	28.8	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	
Dielectric Strength	20.0 kV/mm	507 kV/in	Silicone Rubber Insulator; ASTM D149
	@Thickness 0.190 mm	@Thickness 0.00750 in	
Dissipation Factor	0.12	0.12	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	0.14	0.14	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150
	@Frequency 10000 Hz	@Frequency 10000 Hz	
	0.15	0.15	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.16	0.16	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150
	@Frequency 150 Hz	@Frequency 150 Hz	
	0.093	0.093	EPDM Rubber Hi-K Stress Control Tube, 400 V at 60% Strain; ASTM D150
	@Thickness 1650 mm, Frequency 60.0 Hz	@Thickness 65.0 in, Frequency 60.0 Hz	
	0.096	0.096	EPDM Rubber Hi-K Stress Control

Electrical Properties	Metric @Thickness 584 mm, Frequency 60.0 Hz	English @Thickness 23.0 in, Frequency 60.0 Hz	Comments Tube, 400 V at 60% Strain; ASTM D150
	0.132	0.132	EPDM Rubber Hi-K Stress Control Tube, 400 V at 60% Strain; ASTM D150
	@Thickness 2290 mm, Frequency 60.0 Hz	@Thickness 90.0 in, Frequency 60.0 Hz	
	0.161	0.161	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150
	@Thickness 2290 mm, Frequency 60.0 Hz	@Thickness 90.0 in, Frequency 60.0 Hz	
	0.165	0.165	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150
	@Thickness 1650 mm, Frequency 60.0 Hz	@Thickness 65.0 in, Frequency 60.0 Hz	
	0.166	0.166	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150
	@Thickness 584 mm, Frequency 60.0 Hz	@Thickness 23.0 in, Frequency 60.0 Hz	
Track Resistance	3600 sec	3600 sec	3.5 kV; ASTM 2303
	36000 sec	36000 sec	2.5 kV; ASTM 2303

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