

## 3M 7690-T Cold Shrink Silicone Rubber Termination Kits QT-III

Category : Polymer , Thermoset , Silicone , Silicone Rubber

### Material Notes:

3M™ Cold Shrink QT-III Silicone Rubber Skirted Termination Kits, 7620-Tand 7690-T Series, contain one-piece, non-skirted, silicone rubber termination, qualified as IEEE Standard 48 Class 1 for indoor weather-exposed applications. The termination assemblies consist of a tubular insulator high dielectric constant (Hi-K) stress control tube, conformable Hi-k stress controlling compound and built-in silicone top seal. The insulator is made of a new dark gray silicone rubber with advanced tracking resistance and hydrophobic properties. Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-7690-T-Cold-Shrink-Silicone-Rubber-Termination-Kits-QT-III.php](http://www.lookpolymers.com/polymer_3M-7690-T-Cold-Shrink-Silicone-Rubber-Termination-Kits-QT-III.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	5.86 MPa	850 psi	Silicone Rubber Insulator; ASTM D412
	10.3 MPa	1490 psi	High-K Stress Control Tube; ASTM D412
100% Modulus	0.000896 GPa	0.130 ksi	Silicone Rubber Insulator; ASTM D412
	0.00110 GPa	0.160 ksi	High-K Stress Control Tube; ASTM D412
300% Modulus	0.00276 GPa	0.400 ksi	Silicone Rubber Insulator; ASTM D412
	0.00345 GPa	0.500 ksi	High-K Stress Control Tube; ASTM D412

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.6	3.6	Silicone Rubber Insulator, 1000 V, 50% RH; ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	22	22	High-K Stress Control Tube, 1000 V, 50% RH; ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	25	25	High-K Stress Control Compound, 1000 V, 50% RH, 100 mil; ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dielectric Strength	11.8 kV/mm	300 kV/in	Environmental Sealing Compound; ASTM D149
	@Thickness 1.91 mm	@Thickness 0.0750 in	
	19.7 kV/mm	500 kV/in	Silicone Rubber Insulator; ASTM D149
	@Thickness 1.91 mm	@Thickness 0.0750 in	
	0.0030	0.0030	

Designation Factor Electrical Properties	Metric @Frequency 60.0 Hz	English @Frequency 60.0 Hz	Comments Silicone Rubber Insulator, 1000 V, 50% RH; ASTM D150
	0.10 @Frequency 60.0 Hz	0.10 @Frequency 60.0 Hz	High-K Stress Control Tube, 1000 V, 50% RH; ASTM D150
	0.90 @Frequency 60.0 Hz	0.90 @Frequency 60.0 Hz	High-K Stress Control Compound, 1000 V, 50% RH; ASTM D150
Track Resistance	18000 sec	18000 sec	3.5 kV; ASTM 2303

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