

3M™ Cold Shrink QT-III Silicone Rubber Indoor Tubular Termination Kits, 7620-T and 7690-T Series

Applications

The 3M Cold Shrink QT-III Silicone Rubber Indoor Tubular Termination Kits, 7620-T and 7690-T Series, are designed for:

- 5, 8, 15 and 25/28 and 35 kV voltage classes
- Tape Shield, Wire Shield and UniShield® cables
- Solid dielectric insulations, such as polyethylene, XLP and EPR
- Contaminated and non-contaminated indoor (weather-protected) locations
- Free-hanging or bracket-mounting arrangements
- Upright or inverted installations
- Switchgear, transformer, motor lead, bus and similar connections.
- These terminations can be field-tested by using normal cable testing procedures (reference: IEEE Standard 400 “Guide for Field Testing and Evaluation of the Insulation of Shielded Power Cable Systems”. Refer to most recent version).

Environmental Classification

Indoor terminations, such as 3M Cold Shrink QT-III Silicone Rubber Indoor Tubular Termination Kits, 7620-T and 7690-T Series, can be specified for most outdoor, pad-mounted switchgear and transformer applications, since these enclosure interiors are protected from direct exposure to the elements.

Typical Properties

Not for specifications. Values are typical, not to be considered minimum or maximum. Properties measured at room temperature 73°F (23°C) unless otherwise stated.

3M Cold Shrink QT-III Silicone Rubber Indoor Tubular Termination Kits, 7620-T and 7690-T Series, can be used on cables with a rated maximum operating temperature of 221°F (105°C) and emergency overload rating of 284°F (140°C).

Terminations constructed from these kits meet the requirements of IEEE 48, “IEEE Standard Test Procedures and Requirements for High Voltage Alternating-Current Cables Terminations” and are designated Class 1 for indoor or weather-protected locations. The current rating of these terminations meets or exceeds the current rating of the cables on which they are installed.

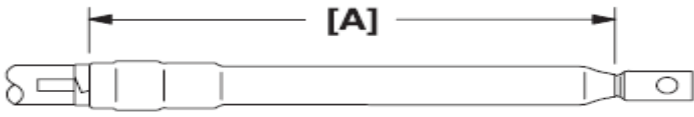
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Termination Selection Table

Kit Number	Cable Insulation O.D. Range in. (mm)	Conductor Range (AWG and kcmil)				
		5 kV 100% 133%	8 kV 100% 133%	15 kV 100% 133%	25/28 kV 100% 133%	35 kV 100% 133%
7620-T-95	0.32" – 0.59" (8,1 - 15,0 mm)	8 – 4 --	8 – 6 --	-- --	-- --	-- --
7621-T-95	0.44" - 0.89" (11,2 - 22,6 mm)	2 – 3/0 --	4 – 2/0 --	-- --	-- --	-- --
7622-T-95	0.64" – 1.08" (16,3 – 27,4 mm)	4/0 – 400 --	3/0 – 300 --	-- --	-- --	-- --
7624-T-95	0.83" – 1.53" (21,1 – 38,9 mm)	500 – 750 --	350 – 700 --	-- --	-- --	-- --
7625-T-95	1.05" – 1.80" (26,7 – 45,7 mm)	700 – 1500 --	600 – 1250 --	-- --	-- --	-- --
7622-T-110	0.64" – 1.08" (16,3 – 27,4 mm)	4/0 – 400 --	3/0 – 300 --	2 – 2/0 (35 -70 mm ²)	-- --	-- --
7622-T-110(L)	0.69" – 1.22" (17,5 – 31,0 mm)	--	--	1/0 – 4/0 (60 -120 mm ²)	-- --	-- --
7623-T-110	0.72" – 1.29" (18,3 – 32,8 mm)	300 – 500 --	250 – 500 --	2/0 – 300 (70 -150 mm ²)	-- --	-- --
7624-T-110	0.83" – 1.53" (21,1 – 38,9 mm)	500 – 750 --	350 – 700 --	4/0 – 500 (120 – 240 mm ²)	-- --	-- --
7625-T-110	1.05" – 1.80" (26,7 – 45,7 mm)	700 – 1500 --	600 – 1250 --	500 – 1000 (240 – 500 mm ²)	-- --	-- --
7625-T-110(L)	1.15" – 1.98" (29,2 – 50,3 mm)	--	--	750 – 1000 (400 -500 mm ²)	-- --	-- --
7626-T-110	1.53" – 2.32" (38,9 – 58,9 mm)	1750 – 2000 --	1500 – 2000 --	1250 – 2000 (625 – 1000 mm ²)	-- --	-- --
7693-T-150	0.72" – 1.29" (18,3 – 32,8 mm)	300 – 500 --	250 – 500 --	2/0 – 300 (70 – 150 mm ²)	2 – 4/0 (35 – 120 mm ²)	2 – 2/0 (35 – 70 mm ²)
7695-T-150	1.05" – 1.80" (26,7 – 45,7 mm)	700 – 1500 --	600 – 1250 --	500 – 1000 (240 – 500 mm ²)	250 – 800 (150 - 400 mm ²)	3/0 – 600 (95 – 325 mm ²)
7695-T-150(L)	1.15" – 1.90" (29,2 – 48,3 mm)	--	--	750 – 1000 (400 -500 mm ²)	500 – 750 (240 -325 mm ²)	--
7696-T-150	1.53" – 2.32" (38,9 – 58,9 mm)	1750 – 2000 --	1500 – 2000 --	1250 – 2000 (625 – 1000 mm ²)	900 – 1750 (500 – 800 mm ²)	700 – 1500 (400 – 725 mm ²)

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Typical Dimensions



Kit Number	Dimension [A] (Maximum)	Wet Creepage Distance (Maximum)	Arcing Distance (Maximum)
7620-T-95	8.5" (215 mm)	8.5" (215 mm)	8.5" (215 mm)
7621-T-95	8.5" (215 mm)	8.5" (215 mm)	8.5" (215 mm)
7622-T-95	8.5" (215 mm)	8.5" (215 mm)	8.5" (215 mm)
7624-T-95	8.5" (215 mm)	8.5" (215 mm)	8.5" (215 mm)
7625-T-95	8.5" (215 mm)	8.5" (215 mm)	8.5" (215 mm)
7622-T-110(L)	8.5" (215 mm)	8.5" (215 mm)	8.5" (215 mm)
7622-T-110	13.0" (330 mm)	13.0" (330 mm)	13.0" (330 mm)
7623-T-110	13.0" (330 mm)	13.0" (330 mm)	13.0" (330 mm)
7624-T-110	13.0" (330 mm)	13.0" (330 mm)	13.0" (330 mm)
7625-T-110	13.0" (330 mm)	13.0" (330 mm)	13.0" (330 mm)
7625-T-110(L)	13.0" (330 mm)	13.0" (330 mm)	13.0" (330 mm)
7626-T-110	13.0" (330 mm)	13.0" (330 mm)	13.0" (330 mm)
7693-T-150	16.5" (419 mm)	16.5" (419 mm)	16.5" (419 mm)
7695-T-150	16.5" (419 mm)	16.5" (419 mm)	16.5" (419 mm)
7695-T-150(L)	16.5" (419 mm)	16.5" (419 mm)	16.5" (419 mm)
7696-T-150	16.5" (419 mm)	16.5" (419 mm)	16.5" (419 mm)