

PRODUCTION DESCRIPTION

The 3M QTII (X) Series are Silicone Rubber Cold Shrink Quick Terminating System that designed to accommodate medium voltage metallic-shielded armored non-armored, copper or aluminum conductor power cables configurations.

3M QTII (X) Series provide easy installation for indoor and outdoor applications. QT-II (X) termination is based on specially formulated, track-resistant silicone rubber insulators with built-in Hi-K stress relief. The insulators are prestretched around a spiral -wound, plastic core.

The QTII (X) Series Termination meet or exceed the specification requirements of Standards:

- ▶ IEEE Standard 48-1990, for Class 1 termination.
- ► CENELEC Standards HD 628-S1 and HD 629.1.S1.
- ▶ VDE Standard 0278-628 and VDE 0278-629-1.
- British Standard BS 7888-4.1.
- ► IEC Standard 61442 & 60502-4.
- ▶ Vietnamese Standard TCVN 5935-4.

PRODUCTION APPLICATION

- For power cables up to 42kV.
- For polymeric cables: polyethylene, XLPE, EPR.
- For 1C/3C copper tape, wire shield, armored/non-armored power cables.
- For copper or aluminum conductors.
- For contaminated, pollution area, operating environment.
- For switchgear, transformer, motor lead (terminal type) bus, overhead etc. connections.





SELECTION GUIDE

	6/10(12) kV		12.7/22(24) kV		20/35(40.5) kV		22/38.5(42) kV	
	ID	OD	ID	OD	ID	OD	ID	OD
4-Skirt	✓	✓	✓					
6-Skirt				✓	✓			
8-Skirt						✓		
12-Skirt							✓	✓

KEY FEATURES

- ▶ Versatile- Install quickly and accommodates a wide range of cable sizes: from 25sqmm to 630sqmm.
- ► Simple hand application, no need for special installation tools.
- ► No torches or heat required.
- Excellent resistance to ozone and UV radiation.
- Good solvent resistant.
- Excellent thermal stability.
- ► High dry and wet insulation resistance.
- ▶ High flexible accommodates all cable company bend radius recommendations.
- ▶ Reliable Seals Termination assemblies retain resiliency and cable interface pressure after prolonged years of aging and exposure.

QTII (X) Series

DETAILED COMPOSITION OF THE QTII (X)

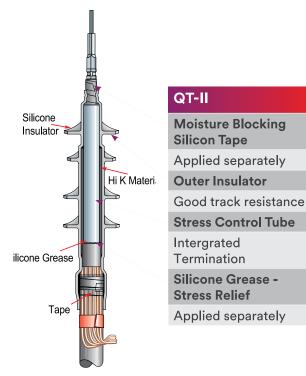
► QTII Termination Assembly:

The cold shrink delivery system has repeatedly proven itself to be unsurpassed as a positive and reliable electrical insulating and moisture-sealing system for cable primary insulation interface surface.

Onepiece cold shrink termination assembly is created when silicon rubber skirted insulator is mounted over a High Dielectric Constant (High-K) stress relief on a common support core.

SILICONE RUBBER-MATERIAL CHARACTERISTICS

- Smooth surface: minimum amount of contamination adhenre to the termination.
- Hydrophobicity: When water comes in contact with the silicone it beads up and runs off the skirts rather than completely wetting these surfaces. Thus a less conductive path is formed on the silicone and leakage currents are lowered.
- ► Non-organic/ nonconductive: degrade leakage current and arcing occurs on the surface of termination.
- ► **High temperature with stand:** An outstanding physical characteristic of silicone rubber is its retention of desirable properties over the wide temperature range of 100°C to 180°C.



NOTE: Length of phases depend on requirements of Customer. Installed length of 3-phase 3M QTII termination standard kits are 1m approximate.

SELECTION GUIDE

	6/10(12) kV	12.7/22(24) kV		20/35(40.5) kV		22/38.5(42) kV	
	Indoor/ Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor
1-phase	QTII	QTII	QTII	QTII	QTII	QTII	QTII
	(X)4S-11	(X)4S-12	(X)6S-12	(X)6S-13	(X)8S-13	(X)8S-14	(X)12S-14
3-phase	QTII	QTII	QTII	QTII	QTII	QTII	QTII
	(X)4S-31	(X)4S-32	(X)6S-32	(X)6S-33	(X)8S-33	(X)8S-34	(X)12S-34

QTII (X)xS-CV

QTII: Product Name Quick Termination II
(X)xS: Type of QTII termination/body assembly

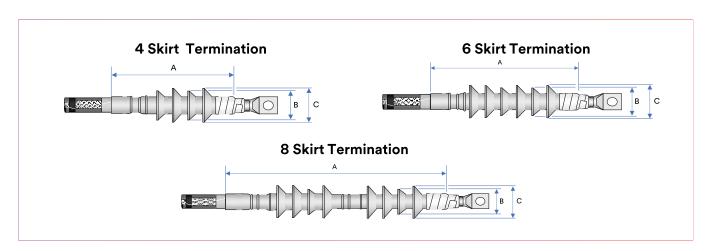
(J4S, L6S, M8S; S: Skirt)

C : Number of Conductor/ Core (1, 3)

V : Class of Voltage (1: 12kV; 2: 24kV;

3: 36kV, 4: 40.5kV)

Ex.: QTII (L)6S-32 is QTII 3/C termitation, body type L 6S, outdoor application for 24kV class, 100°C to 180°C.



	Cable Application Range				Dimensions (mm)					
Number of QTII body	O.D. insulation (mm)		O.D. Jacket	Installed	Installed	Installed	Creepage	Arcing		
	Min	Max	(mm)	length (A)	length (B)	length (C)	Distance (1P/3P)	Distance		
4 SKIRT										
J	16.3	22.9	20.3 - 30.5	250	42.4	68.1	438 / 1138	317		
K	21.3	33.8	25.4 - 40.6	250	46.2	69.8	438 / 1138	317		
L	27.9	41.9	33.0 - 48.3	275	50.8	82.5	489 / 1189	356		
М	33.0	49.5	38.1 - 61.0	280	50.8	90.2	495 / 1195	362		
6 SKIRT										
J	16.3	22.9	20.3 - 30.5	325	42.4	68.1	584 / 1284	394		
K	21.3	33.8	25.4 - 40.6	325	46.2	69.8	584 / 1284	394		
L	27.9	41.9	33.0 - 48.3	360	50.8	82.5	654 / 1354	432		
М	33.0	49.5	38.1 - 61.0	370	50.8	90.2	660 / 1360	438		
8 SKIRT										
J	16.3	22.9	20.3 - 30.5	325	42.4	68.1	584 / 1284	394		
K	21.3	33.8	25.4 - 40.6	325	46.2	69.8	584 / 1284	394		
L	27.9	41.9	33.0 - 48.3	360	50.8	82.5	654 / 1354	432		
М	33.0	49.5	38.1 - 61.0	370	50.8	90.2	660 / 1360	438		

Termination Identification & Markings

