



## TOOL FREE TERMINATION (TFT-E)

15, 25, 35 kV

### KEY FEATURES

- Material does not degrade in outdoor applications
- Prevents collapsing due to rough handling
- Seals out moisture and contamination
- Provides easier installation in confined spaces
- Termination can be repositioned after installation on cable
- Aluminum ShearBolts are available for 35 kV class terminations

TE Connectivity's (TE) Raychem Elastomeric medium voltage terminations for 15 kV, 25 kV and 35 kV single core polymeric cables are designed for customers who want TE's material technology with a cold applied system.

The TFT-E features an advanced stress control system using metal oxide matrix technology providing superior electrical performance. The TFT-E system has an elastomeric housing with integral sheds that is formulated for long-term performance in typical extreme termination environments.

The housing comes on a pre-lubricated, crush resistant holdout for simple installation. The superior elastomeric housing, together with the positively positioned stress control system and moisture sealing mastic, provide reliable and consistent installations.

**Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.**

## Tool Free Termination (TFT-E)

The TFT-E system meets or exceeds IEEE-48-1996, Class 1 termination requirements, including the following

Insulation Class	6 h AC	DEV	BIL	DC
15 kV	35 kV	13 kV	110 kV	75 kV
25 kV	55 kV	21.5 kV	150 kV	105 kV
35 kV	75 kV	30 kV	200 kV	140 kV

### PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (mm)

Description	Nominal Conductor Size (AWG/kcmil)	Min/Max Insulation ODs* (Inches)	Min/Max Insulation ODs* (mm)
TFT-151E / SG/SLC	#2 - 250	0.64 - 1.09	16 - 28
TFT-152E / SG/SLC	4/0 - 500	0.85 - 1.45	22 - 37
TFT-153E / SG/SLC	500 - 750	1.06 - 1.70	27 - 43
TFT-154E / SG/SLC	1000 - 1250	1.49 - 2.20	38 - 56
TFT-251E / SG/SLC	#1 - 3/0	0.64 - 1.09	16 - 28
TFT-252E / SG/SLC	#1 - 500	0.85 - 1.45	22 - 37
TFT-253E / SG/SLC	250 - 750	1.06 - 1.70	27 - 46
TFT-254E / SG/SLC	750 - 1250	1.49 - 2.20	38 - 63
TFT-352E / SG/SLC	1/0 - 250	0.85 - 1.45	22 - 37
TFT-353E / SG/SLC	4/0 - 500	1.06 - 1.70	27 - 43
TFT-354E / SG/SLC	500 - 1250	1.49 - 2.20	38 - 56

\*Insulation ODs and nominal conductor sizes are based on 100 and 133% concentric stranded cable dimensions.

### KITS INCLUDING SHEARBOLTS: DIMENSIONS IN INCHES (mm)

Description	Nominal Conductor Size (AWG/kcmil)	Min/Max Insulation ODs (inches)	Min/Max Insulation ODs (mm)	Connector
TFT-353E-T5	1/0 - 350	1.05 - 1.48	26 - 38	ASBT-2-350
TFT-354E-T8	350 - 750	1.36 - 1.82	35 - 46	ASBT-350-750
TFT-354E-T9	600 - 1000	1.57 - 2.20	40 - 56	ASBT-600-1000

Packaging: Standard packaging is three terminations per box.  
Available accessories: The BRKT series of stainless steel cable mounting brackets are available. Four sizes of bracket accommodate cable diameters from 0.80-2.40"  
The MOD-3-TFT series of three conductor modification kits are available.  
Kits provide re-jacketing of phase conductors and break out seals.  
Lugs and pin terminals also available.

### TEST REPORT

15 kv Test Report: EDR-5302  
25 kv Test Report: EDR-5303  
35 kv Test Report: EDR-5299

[te.com/energy](http://te.com/energy)

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