

# TFT-E 1/C Termination for Shielded Power Cable

## FEATURES

- Holdout tube prevents collapsing due to rough handling
- Quick and easy installation in confined spaces
- Seals out moisture and contamination
- Aluminum shear bolts are available in 35 kV class terminations
- Fully qualified class 1 termination per IEEE-48 for a long, trouble free service life.

## APPLICATIONS

- This termination features an advanced stress control system using metal oxide matrix technology providing superior electrical performance.
- Material does not degrade in outdoor applications

## BENEFITS

- ♦ TE's Raychem 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.
- ♦ Provides excellent electrical performance and prevents misplacement of stress control system



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)

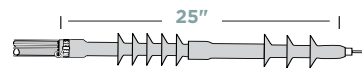
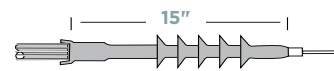
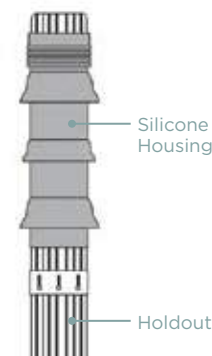
Catalog Number	Nominal Conductor Size	Min/Max Insulation O.D.s*
TFT-151E-SG-SLC	#2-250 kcmil	0.64-1.09 (16-28)
TFT-152E-SG-SLC	4/0-500 kcmil	0.85-1.45 (22-37)
TFT-153E-SG-SLC	500-750 kcmil	1.06-1.70 (27-43)
TFT-154E-SG-SLC	1000-1250 kcmil	1.49-2.20 (38-56)
TFT-251E-SG-SLC	#1-2/0 AWG	0.64-1.09 (16-28)
TFT-252E-SG-SLC	#2-350 kcmil	0.85-1.45 (22-37)
TFT-253E-SG-SLC	250-750 kcmil	1.06-1.70 (27-46)
TFT-254E-SG-SLC	750-1250 kcmil	1.49-2.20 (38-63)
TFT-352E-SG-SLC	1/0-250 kcmil	0.85-1.45 (22-37)
TFT-353E-SG-SLC	4/0-350 kcmil	1.06-1.70 (27-43)
TFT-354E-SG-SLC	500-1250 kcmil	1.49-2.20 (38-56)

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

Kit	Nominal Conductor Size	Min./Max. Insulation O.D.	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

### ADDITIONAL PRODUCT INFORMATION

- The -SG and -SLC kits contain a solder-blocked ground braid and a solderless ground clamp.
- Select the appropriate catalog number. Selections are based on the typical dimensions of 100% insulated cables and the dimensions of commonly used connectors manufactured in accordance with AEIC standard. Nominal insulation thickness (100%): 15 kV: 175 mils, 25 kV: 260 mils, 35 kV: 345 mils.
- For cables manufactured to other specifications, confirm selection with cable dimensions.
- Kits do not contain connectors; order compression or solder connectors separately.
- Cable mounting brackets are available to accommodate cable diameters from 0.80-2.40 inches (20-61 mm).



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

Catalog Number	Cable Range (AWG/kcmil)	Min - Max Insulation Diameter	Number of Skirts	Standard Pack (kits/box)	Hold Out ID
<b>CN and JCN Cable - Indoor/Outdoor (15 kV)</b>					
TFT-151E	#2-250	0.64-1.09 (16-28)	3	1 ea.	1.50 (38)
TFT-152E	4/0-500	0.85-1.45 (22-37)	3	1 ea.	1.77 (45)
TFT-153E	500-750	1.06-1.70 (27-43)	3	1 ea.	2.09 (53)
TFT-154E	1000-1250	1.49-2.20 (38-56)	3	1 ea.	2.56 (65)
<b>CN and JCN Cable - Indoor/Outdoor (25 kV)</b>					
TFT-251E	#1-3/0	0.64-1.09 (16-28)	5	1 ea.	1.50 (38)
TFT-252E	#1-500	1.85-1.45 (22-37)	5	1 ea.	1.77 (45)
TFT-253E	250-750	1.60-1.70 (27-43)	5	1 ea.	2.09 (53)
TFT-254E	750-1250	1.49-2.20 (38-56)	5	1 ea.	2.56 (65)
<b>CN and JCN Cable - Indoor/Outdoor (35 kV)</b>					
TFT-352E	1/0-40	.85-1.31 (22-33)	8	1 ea.	1.77 (45)
TFT-353E	4/0-500	1.06-1.70 (27-43)	8	1 ea.	2.09 (53)
TFT-354E	500-1250	1.49-2.20 (38-56)	8	1 ea.	2.56 (65)
<b>Tape Shielded Cable - Indoor/Outdoor (5 kV No Sheds)</b>					
TFT-151E-G	2/0-250	0.64-1.09 (16-28)	0	3 ea.	1.50 (38)
TFT-152E-G	350-500	0.85-1.45 (22-37)	0	3 ea.	1.77 (45)
TFT-153E-G	500-750	1.06-1.70 (27-43)	0	3 ea.	2.09 (53)
<b>Tape Shielded Cable - Indoor/Outdoor (8 kV No Sheds)</b>					
TFT-151E-G	1/0-250	0.64-1.09 (16-28)	0	3 ea.	1.50 (38)
TFT-152E-G	250-500	0.85-1.45 (22-37)	0	3 ea.	1.77 (45)
TFT-153E-G	500-750	1.06-1.70 (27-43)	0	3 ea.	2.09 (53)
<b>Tape Shielded Cable - Indoor Only (15 kV No Sheds)</b>					
TFT-151E-G	#2-250	0.64-1.09 (16-28)	0	3 ea.	1.50 (38)
TFT-152E-G	4/0-500	0.85-1.45 (22-37)	0	3 ea.	1.77 (45)
TFT-153E-G	500-750	1.06-1.70 (27-43)	0	3 ea.	2.09 (53)
<b>Tape Shielded Cable - Indoor/Outdoor (15 kV)</b>					
TFT-151E-SG	#2-250	0.64-1.09 (16-28)	3	3 ea.	1.50 (38)
TFT-152E-SG	4/0-500	0.85-1.45 (22-37)	3	3 ea.	1.77 (45)
TFT-153E-SG	500-750	1.06-1.70 (27-43)	3	3 ea.	2.09 (53)
TFT-154E-SG	1000-1250	1.49-2.20 (38-56)	3	3 ea.	2.56 (65)
<b>Tape Shielded Cable - Indoor/Outdoor (25 kV)</b>					
TFT-251E-SG	#1-3/0	0.64-1.09 (16-28)	5	3 ea.	1.50 (38)
TFT-252E-SG	#	0.85-1.45 (22-37)	5	3 ea.	1.77 (45)
TFT-253E-SG	250-750	1.06-1.70 (27-43)	5	3 ea.	2.09 (53)
TFT-254E-SG	750-1250	1.49-2.20 (38-56)	5	3 ea.	2.56 (65)
<b>Tape Shielded Cable - Indoor/Outdoor (35 kV)</b>					
TFT-352E-SG	1/0-250	0.85-1.45 (22-37)	8	3 ea.	1.77 (45)
TFT-353E-SG	4/0-500	1.06-1.70 (27-43)	8	3 ea.	2.09 (53)
TFT-354E-SG	500-1250	1.49-2.20 (38-56)	8	3 ea.	2.56 (65)
<b>LC Shielded Cable - Indoor/Outdoor (15 kV)</b>					
TFT-151E-SLC	#2-250	0.64-1.09 (16-28)	3	3 ea.	1.50 (38)
TFT-152E-SLC	4/0-500	0.85-1.45 (22-37)	3	3 ea.	1.77 (45)
TFT-153E-SLC	500-750	1.06-1.70 (27-43)	3	3 ea.	2.09 (53)
TFT-154E-SLC	1000-1250	1.49-2.20 (38-56)	3	3 ea.	2.56 (65)
<b>LC Shielded Cable - Indoor/Outdoor (25 kV)</b>					
TFT-251E-SLC	#1-3/0	0.64-1.09 (16-28)	5	3 ea.	1.50 (38)
TFT-252E-SLC	#	0.85-1.45 (22-37)	5	3 ea.	1.77 (45)
TFT-253E-SLC	250-750	1.06-1.70 (27-43)	5	3 ea.	2.09 (53)
TFT-254E-SLC	750-1250	1.49-2.20 (38-56)	5	3 ea.	2.56 (65)
<b>LC Shielded Cable - Indoor/Outdoor (35 kV)</b>					
TFT-352E-SLC	1/0-250	0.85-1.45 (22-37)	8	3 ea.	1.77 (45)
TFT-353E-SLC	4/0-500	1.06-1.70 (27-43)	8	3 ea.	2.09 (53)
TFT-354E-SLC	500-1250	1.49-2.20 (38-56)	8	3 ea.	2.56 (65)

## RELATED INFORMATION

Test Report:  
EDR-5302, 15 kV,  
EDR-5303, 25 kV  
EDR-5357, 35 kV  
EDR-5299

- 1 Packaging: Standard packaging is three terminations per box
- 2 Available accessories: The BRKT series of stainless steel cable mounting brackets are available. Four sizes of brackets accommodate cable diameters from 0.80-2.40 inches (20-61 mm) 3 conductor modification kits.
- 3 Lugs and pin terminals also available.

**Installed Length**  
5/8/15 kV (without sheds)



**15 kV (with sheds)**



**25 kV (with sheds)**



**35 kV (with sheds)**

