



## TOOL FREE TERMINATION (TFT-R)

5/8 kV - 35 kV

### KEY FEATURES

- Provides maintenance free, long life even in highly contaminated areas
- Material does not degrade in outdoor applications, outstanding UV stability
- Crush resistant core prevents collapsing due to rough handling
- Seals out all moisture and contamination
- Provides easier installation in confined spaces
- Fewer kits to accommodate a wider range of cable sizes

TE Connectivity's (TE) Raychem TFT-R elastomeric medium voltage cable termination is available for both shielded and non-shielded indoor and outdoor applications. TFT-R terminations are designed for customers who prefer cold applied terminations.

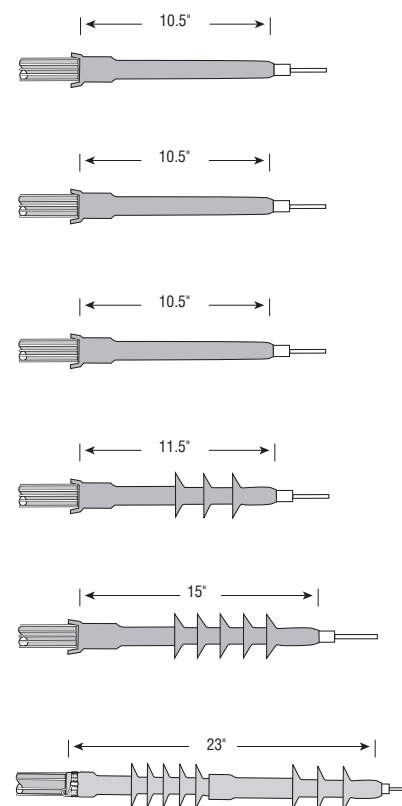
The TFT-R terminations feature an advanced stress control system using metal oxide matrix technology that provides superior electrical performance. They feature an outer elastomeric insulation tubing formulated for long-term performance in extreme environments. The tubing comes with a pre-lubricated, crush resistant core (holdout) for simple installation. The superior elastomeric insulation tubing, together with the positive positioned stress control system and moisture sealing mastic, provide simple, reliable, and consistent installations.

TFT-R, TFT-R-G, and TFT-R-SG terminations are designed for 5/8, 15, 25 and 35 kV single conductor shielded and non-shielded extruded dielectric cables up to 1250 kcmil.

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



| PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (mm/metric) |                                        |                      |                              |
|-----------------------------------------------------------------|----------------------------------------|----------------------|------------------------------|
| Description                                                     | Nominal Conductor Size<br>(5 and 8 kV) |                      | Insulation ODs*<br>min./max. |
| TFT-P-R (Shielded, Indoor) PUSH ON INSTALLATION                 |                                        |                      |                              |
|                                                                 | 5 kV/8 kV                              |                      |                              |
| TFT-P-80R                                                       | #6 - #2 AWG                            |                      | 0.39 - 0.61 (4.9 - 15.5)     |
| TFT-R (Non-Shielded, Indoor and Outdoor)                        |                                        |                      |                              |
|                                                                 | 5 kV                                   |                      |                              |
| TFT-50R                                                         | #2 - 3/0 AWG                           |                      | 0.53 - 0.80 (13 - 20)        |
| TFT-51R                                                         | #1 AWG - 350w kcmil                    |                      | 0.64 - 1.09 (16 - 28)        |
| TFT-52R                                                         | 250 - 750 kcmil                        |                      | 0.85 - 1.45 (22 - 37)        |
| TFT-53R                                                         | 500 - 1250 kcmil                       |                      | 1.06 - 1.70 (27 - 43)        |
| TFT-54R                                                         | 1000 - 2000 kcmil                      |                      | 1.49 - 2.20 (38 - 56)        |
| TFT-R-G (Shielded, Indoor and Outdoor)                          |                                        |                      |                              |
|                                                                 | 5 kV                                   | 8 kV                 |                              |
| TFT-151R-G                                                      | #2/0 AWG - 500 kcmil                   | #1/0 AWG - 350 kcmil | 0.64 - 1.09 (16 - 28)        |
| TFT-152R-G                                                      | 350 - 1000 kcmil                       | 250 - 750 kcmil      | 0.85 - 1.45 (22 - 37)        |
| TFT-153R-G                                                      | 750 - 1250 kcmil                       | 500 - 1000 kcmil     | 1.06 - 1.70 (27 - 43)        |
| TFT-R-G (Shielded, Indoor)                                      |                                        |                      |                              |
|                                                                 | 15 kV                                  |                      |                              |
| TFT-150R-G                                                      | #2 - 3/0 AWG                           |                      | 0.53 - 0.80 (13 - 20)        |
| TFT-151R-G                                                      | #2 - 250 kcmil                         |                      | 0.64 - 1.09 (16 - 28)        |
| TFT-152R-G                                                      | 4/0 - 500 kcmil                        |                      | 0.85 - 1.45 (22 - 37)        |
| TFT-153R-G                                                      | 500 - 750 kcmil                        |                      | 1.06 - 1.70 (27 - 43)        |
| TFT-R-SG (Shielded, Outdoor)                                    |                                        |                      |                              |
|                                                                 | 15 kV                                  |                      |                              |
| TFT-151R-SG                                                     | #2 - 250 kcmil                         |                      | 0.64 - 1.09 (16 - 28)        |
| TFT-152R-SG                                                     | 4/0 - 500 kcmil                        |                      | 0.85 - 1.45 (22 - 37)        |
| TFT-153R-SG                                                     | 500 - 750 kcmil                        |                      | 1.06 - 1.70 (27 - 43)        |
| TFT-154R-SG                                                     | 1000 - 1250 kcmil                      |                      | 1.49 - 2.20 (38 - 56)        |
|                                                                 | 25 kV                                  |                      |                              |
| TFT-251R-SG                                                     | #1 - 3/0 AWG                           |                      | 0.64 - 1.09 (16 - 28)        |
| TFT-252R-SG                                                     | #2/0 - 500 kcmil                       |                      | 0.85 - 1.45 (22 - 37)        |
| TFT-253R-SG                                                     | 250 - 750 kcmil                        |                      | 1.06 - 1.70 (27 - 43)        |
| TFT-254R-SG                                                     | 750 - 1250 kcmil                       |                      | 1.49 - 2.20 (38 - 56)        |
| TFT-352R-SG                                                     | 1/0 - 250 kcmil                        |                      | 0.85 - 1.45 (22 - 37)        |
| TFT-353R-SG                                                     | 4/0 - 500 kcmil                        |                      | 1.06 - 1.70 (27 - 43)        |
| TFT-354R-SG                                                     | 500 - 1250 kcmil                       |                      | 1.49 - 2.20" (38 - 56)       |



### TEST REPORT

15 kV - Test Report: EDR-5302  
25 kV - Test Report: EDR-5303  
35 kV - Test Report: EDR-5299  
Indoor - Non-shedded - Test Report: EDR-5306  
TFT-P - Test Report: EDR-5527

**Packaging:** Standard packaging is three terminations per box.

**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". The MOD-3-TFT series of three conductor modification kits are available. Kits provide rejacketing of phase conductors and breakout seals. A complete line of Utilux copper compression terminals are also available.

**Related Product Information:** NCTR-99-065 - Salt fog and tensile strength test report.

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

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