



# FCT Series

## Field Control Tube

### Description

The Innovative Power Products FCT series tubing is ideally suited for medium voltage terminations from 5kV through 35kV. It has specific electrical characteristics to suppress the electrical field at the cable's semiconductive insulation shield cutback. This specifically engineered tubing provides a high discharge extinction voltage (DEV) when properly applied to a cable with a suitable void filling material at the step. Its resistive and capacitive properties will increase the discharge extinction voltage to an acceptably high level to insure long life and reliable performance.

- **-40°C to +130°C Operating Range**
- **Available in Black Only**
- **Conforms to Underlying Contours**
- **Indefinite Shelf Life**
- **Low Installed Cost**

### Related Product Information

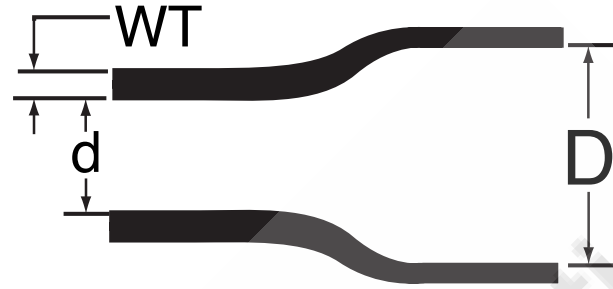
InnoFit™ Type FCT

For medium voltage terminator components see:

Page 30 for NTT (Nontracking Tubing)

Page 33 for E Mod (Nontracking Sheds)

Page 32 for FCM and SMR (sealants)



*Illustration is not to scale*

### Physical Properties

Specification	Test Method	Value (nom.)
Density	ISO/R1183-A	1.30 g/cm <sup>3</sup>
Tensile Strength	ISO 37	15.0 MPa min.
Ultimate Elongation	ISO 37	300% min.
Low Temp. Flexibility	ASTM D-2671 4hrs @ -40°C	No Cracking
Thermal Endurance	IEC 216, TI	100°C
Ultimate Elongation 50% (Longitudinal Change)	MIL-I-23053	±10%

### Electrical Properties

Specification	Test Method	Value (nom.)
Dielectric Constant	IEC 250	30 nom.
Volume Resistivity	IEC 93	1 x 10 <sup>10</sup> ohm-cm

### Selection and Ordering Information

Tubing Size	Inside Diameter		Wall Thickness Post Recovery WT	Standard Spool Length
	As Supplied "D"	After Recovery "d"		
FCT060	0.60 (15.2mm)	0.30 (7.62mm)	.063 (1.60mm)	100 feet
FCT075	0.79 (20.0mm)	0.40 (10.0mm)	.063 (1.60mm)	100 feet
FCT100	1.00 (26.0mm)	0.50 (12.0mm)	.098 (2.50mm)	100 feet
FCT120	1.18 (30.0mm)	0.60 (15.0mm)	.106 (2.70mm)	50 feet
FCT175	1.79 (45.0mm)	0.79 (20.0mm)	.118 (3.00mm)	50 feet
FCT200	2.00 (50.0mm)	1.00 (25.0mm)	.130 (3.30mm)	50 feet
FCT250	2.55 (65.0mm)	1.18 (30.0mm)	.130 (3.30mm)	50 feet