

C106 Semi-Conductive/Insulation/Elastomeric Insulation Tri-Layer Heat Shrink Tube

Introduction

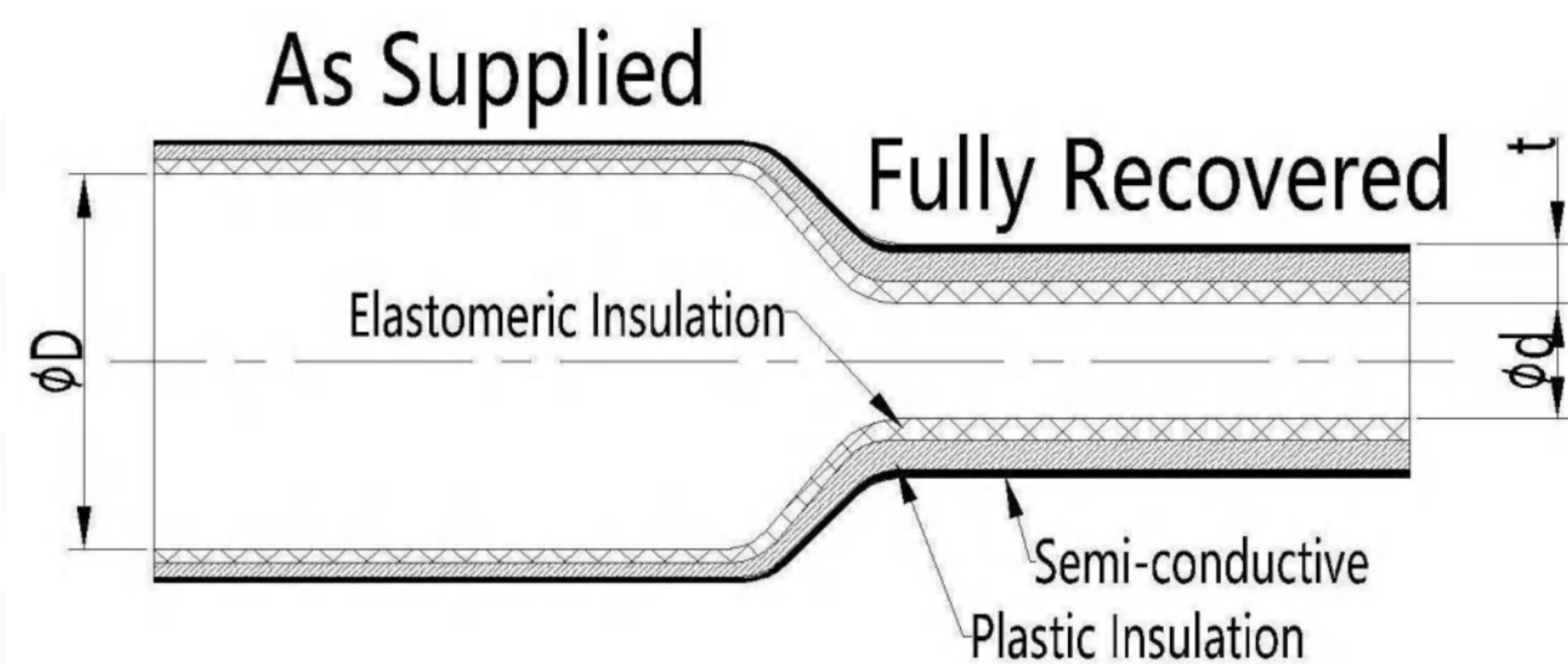
Co-extrusion design, semi-conductive/insulation/elastomeric insulation tri-layer heat shrink tube. The elastomeric layer is designed to have a fast shrinkage rate to avoid overheating damage. Suitable for insulation protection of power cable joint under 36kV.

Features

- Operating temperature: -55 to 105°C
- Minimum fully recovery temperature: 150°C
- Voltage class: 6kV ~ 36kV
- Halogen-free, RoHS compliant, Ultra heavy wall
- Semi-conductive / insulation / Elastomeric Insulation Three-layer
- Standard Color: Black (outer layer) / Red (inner layer)

Dimension

Part No. C106	As supplied (mm)	After recovered (mm)		Standard length (m/pc)
	Inner diameter D (min.)	Inner diameter d (max.)	Wall thickness t (nom.)	
35/13	35	13	11.0	≤ 1.22
45/17	45	17	12.0	≤ 1.22
50/21	50	21	12.0	≤ 1.22
63/26	63	26	12.5	≤ 1.22
75/34	75	34	12.5	≤ 1.22
85/34	85	34	12.5	≤ 1.22
95/42	95	42	13.5	≤ 1.22
110/52	110	52	13.5	≤ 1.22
125/62	125	62	14.0	≤ 1.22



Technical Data

Property	Test Method	Requirement
Outer Layer (Semi-Conductive, Black)		
Tensile Strength	ASTM D 2671	≥ 12 MPa
Ultimate Elongation	ASTM D 2671	≥ 270%
Heat Aging (158°C/168h)	ASTM D 2671	
Tensile Strength		≥ 10 MPa
Ultimate Elongation		≥ 250%
Water absorption (23°C/24h)	ASTM D 2671	≤ 0.5%
Low-temperature flexibility (-40°C/4h)	ASTM D 2671	No cracking
Heat shock (200°C/4h)	ASTM D 2671	No dripping or flowing
Volume resistivity	ASTM D 2671	≤ 1 × 10 ⁴ Ω.cm
Middle Layer (Plastic Insulation, red)		
Tensile Strength	ASTM D 2671	≥ 12 MPa
Ultimate Elongation	ASTM D 2671	≥ 350%
Heat Aging (136°C/168h)	ASTM D 2671	
Tensile Strength		≥ 10 MPa
Ultimate Elongation		≥ 270%
Water absorption (23°C/24h)	ASTM D 2671	≤ 0.5%
Low-temperature flexibility (-40°C/4h)	ASTM D 2671	No cracking
Heat shock (200°C/4h)	ASTM D 2671	No dripping or flowing
Dielectric strength	ASTM D 2671	≥ 15 kV/mm
Volume resistivity	ASTM D 2671	≥ 1 × 10 ¹³ Ω.cm
Inner Layer (Elastomeric Insulation, red)		
Tensile Strength	ASTM D 2671	≥ 6 MPa
Ultimate Elongation	ASTM D 2671	≥ 270%
Heat Aging (136°C/168h)	ASTM D 2671	
Tensile Strength		≥ 4.2 MPa
Ultimate Elongation		≥ 200%
Water absorption (23°C/24h)	ASTM D 2671	≤ 0.5%
Low-temperature flexibility (-40°C/4h)	ASTM D 2671	No cracking
Heat shock (200°C/4h)	ASTM D 2671	No dripping or flowing
Dielectric strength	ASTM D 2671	≥ 15 kV/mm
Volume resistivity	ASTM D 2671	≥ 1 × 10 ¹³ Ω.cm

Note: Use standard samples for testing