

Power Cable Accessories

C105 Semi-Conductive/Insulation Double Layer Heat Shrink Tube

Introduction

Co-extrusion design, semi-conductive/insulation double layer heat shrink tube. Suitable for insulation protection of power cable joint under 36kV.

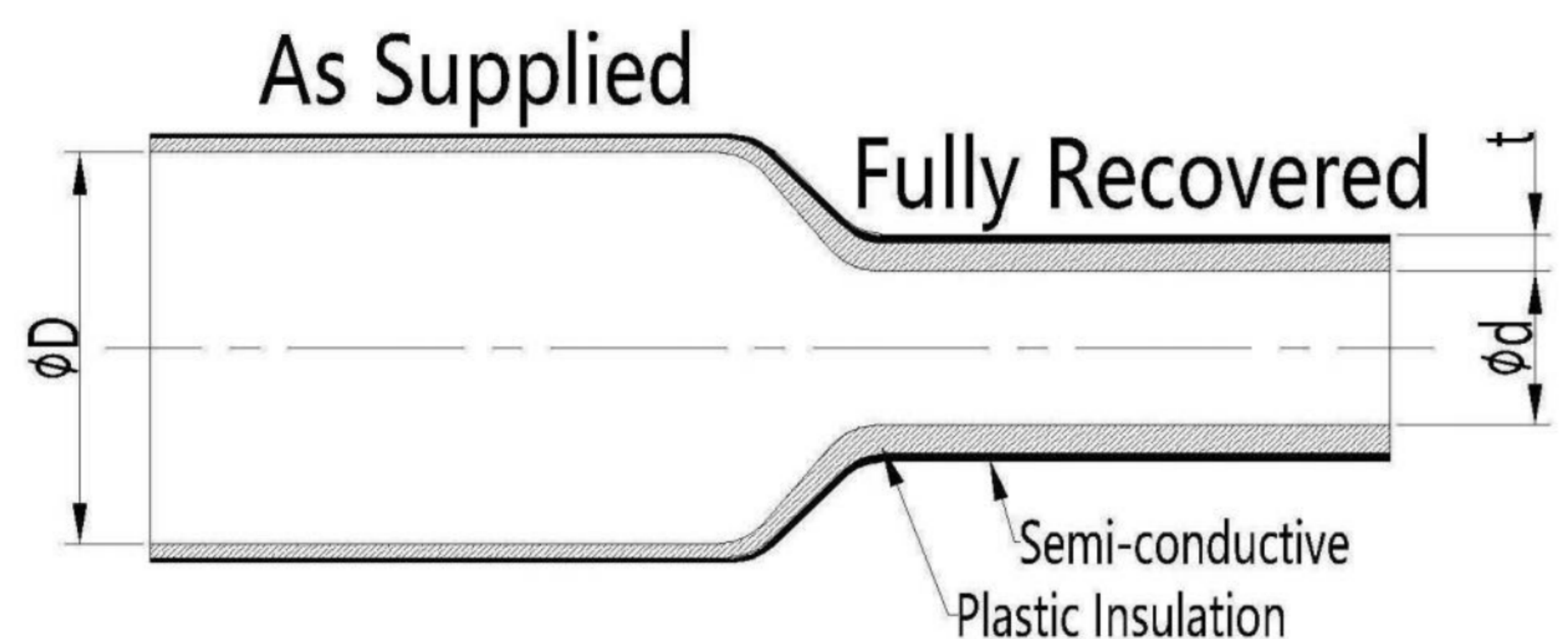
Features

- Operating temperature: -55 to 105°C
- Minimum fully recovery temperature: 135°C
- Standard Color: Black (outer layer) / Red(inner layer)
- Halogen-free, RoHS compliant, Heavy wall
- Semi-conductive / insulation double layer
- Voltage class: 6kV ~ 36kV



Dimension

Part No. C105	As supplied(mm)	After recovered (mm)		Standard length (m/pc)
	Inner diameter D (min.)	Inner diameter d (max.)	Wall thickness t (nom.)	
38/13	38	13	5.0	≤ 1.22
45/17	45	17	5.5	≤ 1.22
50/20	50	20	5.5	≤ 1.22
55/23	55	23	5.5	≤ 1.22
65/25	65	25	6.0	≤ 1.22
75/30	75	30	6.0	≤ 1.22
85/35	85	35	6.0	≤ 1.22
95/40	95	40	6.2	≤ 1.22
115/50	115	50	6.3	≤ 1.22



Technical Data

Property	Test Method	Requirement
Outer Layer (Semi-Conductive, Black)		
Tensile Strength	ASTM D2671	≥12 MPa
Ultimate Elongation	ASTM D2671	≥270%
Heat Aging (158°C/168h)	ASTM D2671	
Tensile Strength		≥ 10 MPa
Ultimate Elongation		≥ 250%
Water absorption (23°C/24h)	ASTM D2671	≤ 0.5%
Low-temperature flexibility (-40°C/4h)	ASTM D2671	No cracking
Heat shock (200°C/4h)	ASTM D2671	No dripping or flowing
Volume resistivity	ASTM D2671	≤ 1 × 10 ⁴ Ω.cm
Inner Layer (Insulation, red)		
Tensile Strength	ASTM D2671	≥12 MPa
Ultimate Elongation	ASTM D2671	≥350%
Heat Aging (136°C/168h)	ASTM D2671	
Tensile Strength		≥ 10 MPa
Ultimate Elongation		≥ 270%
Water absorption (23°C/24h)	ASTM D2671	≤ 0.5%
Low-temperature flexibility (-40°C/4h)	ASTM D2671	No cracking
Heat shock (200°C/4h)	ASTM D2671	No dripping or flowing
Dielectric strength	ASTM D2671	≥ 15 kV/mm
Volume resistivity	ASTM D2671	≥ 1 × 10 ¹³ Ω.cm