

STRESS CONTROL AND INSULATION TUBES

C105 Semi Conductive and Insulation Double Layer Heat Shrink Tube

Co extruded heavy wall tube that restores insulation and the outer semiconductive screen in one operation up to 36 kV



Voltage Range	Up to 36 kV
Operating Temperature	-55 to 105 °C
Full Recovery Temperature	135 °C minimum
Shrink Ratio	2.5:1 to 2:1
Colour	Black outer over red inner
Cross Reference	TE Raychem CICM

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
- Halogen-free, RoHS compliant, Heavy wall
- Semi-conductive / insulation double layer co-extrusion
- Standard Color: Black (outer layer) / Red (inner layer)
- shrink ratio 2.5:1 to 2:1
- Equivalent to TE CICM

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) Tensile Strength Ultimate Elongation	ASTM D2671	≥10 MPa ≥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	≤1.0×104 Ω·cm
Inner Layer (Insulation, red)		
Tensile Strength	ASTM D2671	≥12 MPa
Ultimate Elongation	ASTM D2671	≥350%

Property	Test Method	Requirement
Heat Aging (136°C/168h) Tensile Strength Ultimate Elongation	ASTM D2671	≥10 MPa ≥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	≥1.0×10 ¹³ Ω·cm

Dimensions

Size C105	As supplied(mm) Inner diameter D (min.)	After recovered (mm) Inner diameter d (max.)	Wall thickness t (nom.)	Standard length (m/pcs)
38/13	38	13	5	≤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	≤1.22
75/30	75	30	6	≤1.22
85/35	85	35	6	≤1.22
95/40	95	40	6.2	≤1.22
115/50	115	50	6.3	≤1.22

Cross Reference

Tyco-Raychem: CICM

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