

STRESS CONTROL AND INSULATION TUBES

C107 Plastic and Elastomeric Insulation Double Layer Heat Shrink Tube

Ultra heavy wall insulation for joints where the cable screen is restored separately from 6 kV to 36 kV



Voltage Range	6 kV to 36 kV
Operating Temperature	-55 to 105 °C
Full Recovery Temperature	150 °C minimum
Construction	Plastic and elastomeric insulation
Standard Colour	Red
Wall Class	Ultra heavy wall

Introduction

Co-extrusion design, thermoplastic insulation/elastomeric insulation double 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
- Plastic insulation and Elastomeric Insulation
- Standard Color: Red

Technical Data

Property	Test Method	Requirement
Outer Layer (Plastic Insulation, red)		
Tensile Strength	ASTM D2671	≥12 MPa
Ultimate Elongation	ASTM D2671	≥350%
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

Property	Test Method	Requirement
Inner Layer (Elastomeric Insulation, red)		
Tensile Strength	ASTM D2671	≥6 MPa
Ultimate Elongation	ASTM D2671	≥270%
Heat Aging (136°C/168h) Tensile Strength Ultimate Elongation	ASTM D2671	≥4.2 MPa ≥200%
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
Note: Use standard samples for testing		

Dimensions

Size C107	As supplied(mm) Inner diameter D (min.)	After recovered (mm) Inner diameter d (max.)	Wall thickness t (nom.)	Standard length (m/pcs)
35/13	35	13	11	≤1.22
45/17	45	17	12	≤1.22
50/21	50	21	12	≤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	14	≤1.22
125/62	125	62	14	≤1.22

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