

STRESS CONTROL AND INSULATION TUBES

C108 Insulation and Stress Control Composite Heat Shrink Tube

A single tube that carries both anti tracking insulation and a zinc oxide stress control sealant for terminations up to 24 kV



Voltage Class	Up to 24 kV
Operating Temperature	-55 to 105 °C
Full Recovery Temperature	150 °C minimum
Construction	Insulating layer over stress control sealant
Standard Colour	Red
Inner Layer	Zinc oxide stress control adhesive

Introduction

Double-wall heat-shrinkable tube structure with an outer layer made of radiation cross-linked polyolefin and a unique zinc oxide stress-control adhesive on the inner layer. Excellent anti-tracking, creepage corrosion resistance, and stress control properties. Suitable for insulation protection of indoor and outdoor power cable termination under 24KV

Features

- Operating temperature: -55 to 105°C
- Minimum fully recovery temperature: 150°C
- Voltage class: Under 24kV
- Double wall heat shrink
- Insulating layer, stress control sealant layer
- Standard Color: Red

Technical Data

Property	Test Method	Requirement
Outer Layer (Plastic Insulation, red)		
Tensile Strength	ASTM D2671	≥8 MPa
Ultimate Elongation	ASTM D2671	≥200%
Heat Aging (136°C/168h) Tensile Strength Ultimate Elongation	ASTM D2671	≥8 MPa ≥100%
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 cracking, dripping or flowing
Dielectric strength	ASTM D2671	≥15 kV/mm
Volume resistivity	ASTM D2671	≥1.0×10 ¹² Ω·cm

Property	Test Method	Requirement
Tracking and erosion resistance	ASTM D2303	After 1hr at 2.5kV, and 1hr at 2.75kV, and 1hr at 3.00kV, and 20mins at 3.25kV. No burn penetration, no sustained burning
Flammability	ASTM D2863	OI ≥25
Color fastness to light	IEC 60684-3	No visible change
Inner layer (Stress control and sealant layer, green)		
Dielectric constant	ASTM D150	≥3.1
Volume resistivity	ASTM D2671	≥1.0×10 ¹¹ Ω·cm
Note: Use standard samples for testing		

Dimensions

Size C108	As supplied(mm) Inner diameter D (min.)	After recovered (mm) Inner diameter d (max.)	Wall thickness t (nom.)	Standard length (m/pcs)
30/12	30	12	5	≤ 1.22
45/15	45	15	5	≤ 1.22
49/16	49	16	5	≤ 1.22
50/20	50	20	5	≤ 1.22
60/28	60	28	5	≤ 1.22
80/35	80	35	5	≤ 1.22

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