

HVDW

A two-layer coextruded tube with a black outside semi-conductive layer and a brick inside insulating layer used for jointing MV cables up to 36 kV

Description

Two-layer EPDM extra heavy insulating wall polyethylene semi-conductive outer wall for use in medium voltage joints as an alternative to (CFX plus HSCT). One dual wall tube will replace multiple insulation tubes plus the semi-conductive tube reducing significantly installation time and installation skills required.

Main Features

- **Dual-wall XLPE/EPR heat shrinkable tube**
- **Reduces installation time**
- **Factory engineered system**
- **Reduces skill requirement of jointer**
- **Reduces the number of tubes in a MV joint kit**
- **Delivers consistent insulation thickness**

Technical Data

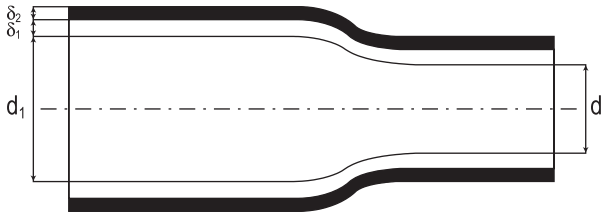
Property	Test Method	Typical Performance (min/max)
Outside semi-conducting layer		
Physical		
Density	IEC 684-2-4	1160 kg/m^3
Tensile Strength	IEC 684-2-19	15/20.5 N/mm^2
Ultimate Elongation	IEC 684-2-19	100/250 %
Electrical		
Resistivity		50/100 ohm-cm
Inside semi-conducting layer		
Physical		
Density	IEC 684-2-4	1200/1300 kg/m^3
Tensile Strength	IEC 684-2-19	5/6.5 N/mm^2
Ultimate Elongation	IEC 684-2-19	250/660 %
Electrical		
Dielectric Strength	IEC 684-2	21/26 kV/mm
Volume Resistivity	IEC 684-2	1x10^{15}/7x10^{15} ohm-cm
Dual Wall Heat Shrinkable Tube		
Physical		
Temperature at Continuous Duty		90/105°C
Shrinkage Temperature		>125°C
Shrinkage at Full Recovery		120/125 %

Electrical Ratings

Test Sequence	Test Voltage Highest Voltage for Cable Um (kV) 12	24	36	Results
A.C. Voltage Withstand 1 min	35	55	75	passed
Partial Discharge	12	24	36	≤10 pC
Impulse Voltage Withstand - 10 positive and 10 negative, 1.2/50 µs, between conductor and grounded screen	75	125	170	passed
Load Cycling - 3 cycles, 5 h heating, 3 h cooling - Conductor Temperature: XPLE cables 95°C paper insulated cables	15 75°C	30 70°C	45 65°C	passed
Partial Discharge	12	24	36	≤10 pC
Load Cycling - as above but 60 cycles	15	30	45	passed
Impulse Voltage Withstand - as above	75	125	170	passed
D.C. Voltage Withstand 30 min	35	55	75	passed
A.C. Voltage Withstand up to breakdown				

Dimensions

Type of Tubes	Recovered Dimensions Insulation EPDM δ_1 (mm)	Semi-cond PE δ_2 (mm)	Internal Diameter d (mm)	Expanded d_1 (mm)	Length (m)
HVDW 36/16	5.5	3.0	16.0	36.0	acc. buyer require-ments
HVDW 36/16S	8.5	4.0	16.0	36.0	
HVDW 45/20	8.5	4.0	20.0	45.0	
HVDW 56/25	12.0	4.0	25.0	56.0	



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