



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 joiner
- 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

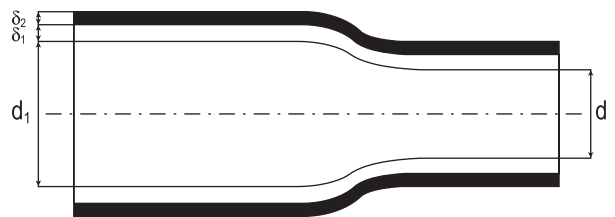
Physical		
Temperature at Continuous Duty		90/105°C
Shrinkage Temperature		>125°C
Shrinkage at Full Recovery		120/125 %

Electrical Ratings

Test Sequence	Test Voltage			Results
	Highest Voltage for Cable Um (kV)			
	12	24	36	
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	30	45	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			Expanded	Length (m)
	Insulation EPDM	Semi-cond PE	Internal Diameter		
	δ _i (mm)	δ _s (mm)	d (mm)	d _i (mm)	
HVDW 36/16	5.5	3.0	16.0	36.0	acc. buyer requirements
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	



CANUSA

There's no end to what we cover

WORLDWIDE WEB: www.canusa-emi.com

All information contained in this leaflet is believed to be reliable. We advise however that customers should separately evaluate the suitability of our products for their particular application. CANUSA-EMI, Shaw Industries and DSG-Canusa GmbH & Co. KG give no guarantees in respect of the accuracy or sufficiency of the information presented and disclaim any liability regarding its use. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. In no instance will we be liable for any eventual, indirect, or consequential damage or damages arising from the sale, resale, transfer, use or misuse of the product.