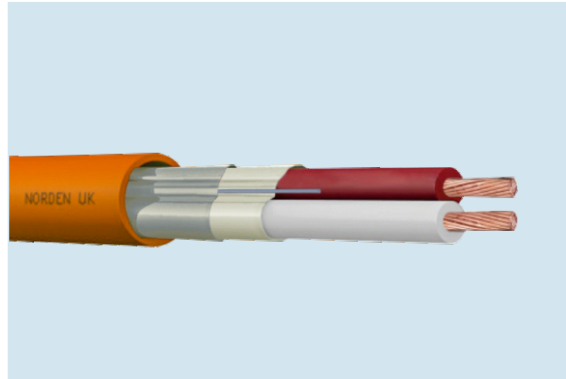


XLPE + MICA TAPE INSULATED FIRE RESISTANT CABLE HFFR



NORDEN XLPE + Mica Tape Insulated fire-resistant cables are manufactured within the specific requirement of fire-resistant cable standards. The fire-resistant cable assures reliable circuit integrity to keep emergency evacuation systems operational even whilst the cable is burning.



CABLE CONSTRUCTION

Conductor Stranded annealed copper wire IEC 60228 class 2	Screen Al/PET foil	Lay-Up Core Stranded together with talk powder
Insulation Mica Tape+ XLPE (EN 50290-2)	Drain Wire 0.8mm Tinned Copper	Ref. Standards IEC 60502 - 1
Core Colors White cores with numbers	Outer Sheath Halogen Free Flame Retardant compound EN 50290-2 VDE 0207 HM2 BS 7655 LTS1/LTS3	Length Tolerance ±5%

Flame Tests	Insulation Integrity	Smoke Density	Corrosive Gas Measurement
IEC /EN 60332-1 IEC 60332-3-22 (CAT-A) (BS 4066 part 1 &3) EN 50266-2-2	IEC 60331(3hrs. fire test @750°C) BS 6387 C W Z (Cat C : 3hrs fire test @905°C, Cat W :15min fire and water test @ 650°C, Cat Z : fire and mechanical shocks @ 950°C - 15 min) EN50200 min.PH30	EN/IEC 61034- 2 BS 7622 HD 606	IEC 60754- 1&2 BS 6425 EN 50267

ELECTRICAL & MECHANICAL CHARACTERISTICS

Properties	Value		
	1.0	1.50	2.50
Cross Section (mm ²)			
Conductor (Cu)	7*0.43 mm	7*0.52 mm	7*0.66 mm
Operating Voltage	600/1000 V		
Test Voltage (1 min)	3500 V		
Conductor Resistance(max. Ω/km)	According to IEC 60228, HD383, BS6360		
Insulation Resistance (min. MΩ.km)	5000		
Temperature Range	fixed -40°C to +90°C, during installation -5°C to +55°C		
Min. Bending Radius (fixed)	10 x Cable diameter		
Oxygen Index	Min.34%		
Oil Resistance (IEC 60811)	ASTM No 2 oil 70°C 4 hours		

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PHYSICAL INFORMATION

Nom. Cond. Cross-Sect. [mm]	Conductor Size (no./mm)	Cable Diameter mm ($\pm 5\%$)	Weight (Kg/km)	Max. Conductor resistance @ 20°C (Ω /km)
2x1.0	7/0.43	7.20	66	18.1
2x1.5	7/0.52	8.0	80	12.1
2x2.5	7/0.66	9.60	122	7.41
4x1.0	7/0.43	10.80	120	18.1
4x1.5	7/0.52	12.20	148	12.1
4x2.5	7/0.66	14.50	215	7.41

ORDERING INFORMATION

Part Number	Description
7R-1011X	1 Pair 1.0 Sq.mm XLPE + Mica Tape Insulated Fire Resistant Cable HFFR
7R-1511X	1 Pair 1.5 Sq.mm XLPE + Mica Tape Insulated Fire Resistant Cable HFFR
7R-2511X	1 Pair 2.5 Sq.mm XLPE + Mica Tape Insulated Fire Resistant Cable HFFR
7R-1012X	2 Pair 1.0 Sq.mm XLPE + Mica Tape Insulated Fire Resistant Cable HFFR
7R-1512X	2 Pair 1.5 Sq.mm XLPE + Mica Tape Insulated Fire Resistant Cable HFFR
7R-2512X	2 Pair 2.5 Sq.mm XLPE + Mica Tape Insulated Fire Resistant Cable HFFR

X:BK:Black BL:Blue OR:Orange