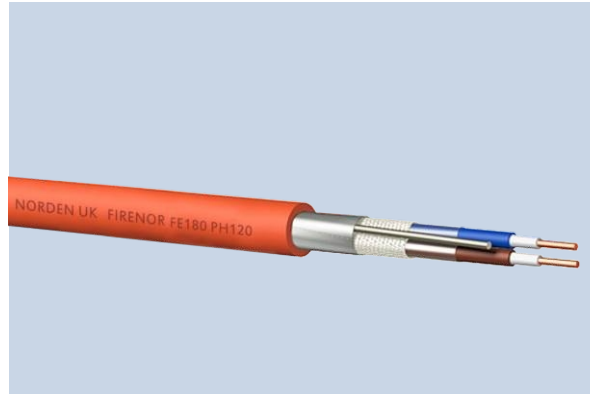


FIRE RESISTANT CABLE PH 120 HFFR INSULATION



NORDEN FireNor PH 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. FireNor fire resistant cables can be used for fire alarm systems, power supply or control of equipment that needs to function during a fire such as warning, emergency lighting, evacuation and monitor systems. The place of usage is intelligent or semi-intelligent buildings where dense human population or valuable goods are found. These can be hospitals, cinemas, theatres, schools, shopping centers, airports, factories, hotels etc. FireNor products have low smoke density, are halogen free and they don't emit poisonous gases.



CABLE CONSTRUCTION

Conductor

Solid Bare Copper
IEC/EN 228, BS 6360, VDE 0295, HD 383

Insulation

Double Layer Insulation (HFFR),
Colour: BS7671/HD308-S2/DE02930-308

Insulation Colour

2 Core: Blue/Brown

Screen

Aluminium Laminated Polyester Tape Foil

Flame Barrier

Fibre Glass Tape

Earth Wire

Tinned Copper to BS 6360 Solid 0.80mm

Sheath

HFFR EN 50290-2,
BS 7655 LTS1/LTS3
VDE 0207

Sheath Color

Red (RAL 3000) or White

Standard Packing Mode

100 mtr / Plywood Reel
500 mtr / Plywood Reel (optional)

Flame Tests	Insulation Integrity	Smoke Density	Corrosive Gas easurement
IEC 60332-3-24 IEC/EN 60332-1 - 2	BS 6387 CWZ Cat. C fire @ 950°C - 180 min. Cat. W fire and water @ 650°C - 15 + 15 min. Cat. Z fire and mechanical shocks @ 950°C - 15 min. EN 50200 PH120830°C fire and mechanical shocks IEC 60331	BS 7622 IEC/EN 61034 -1+2	BS EN 50267 IEC 60754-2

ELECTRICAL & MECHANICAL CHARACTERISTICS

Properties	Value	
	1.5 mm ²	2.5 mm ²
Max. Conductor Resistant @ 20 °C	12.0 Ω/km	7.4 Ω/km
Min. Insulation Resistant @ 0 °C	500 M Ω/km	
Operating Voltage	300/500 V	
Test Voltage	2000 V	
Temperature Rating (Fixed)	-30°C to + 90°C	
Temperature Rating (Flexing)	-5°C to + 60°C	
Min. Bend Radius (Fixed)	8 x D	
Min. Bend Radius (Flexing)	15 x D	



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PHYSICAL INFORMATION

Nom. Cond. Cross-Sect. mm ²	Conductor Size no./mm	Earth Wire Size no./mm	Cable Diameter mm (±5 %)	Weight Kg/km
2 x 1.5	1/1.37	1/0.80	8.00	98.0
2 x 2.5	1/1.75	1/0.80	9.70	148.0

ORDERING INFORMATION

Part Number	Description
54-1502X	FireNor FE 180 PH120 Fire Resistant Cable 2C x 1.5 mm ²
54-2502X	FireNor FE 180 PH120 Fire Resistant Cable 2C x 2.5 mm ²

X → RD:Red WH:White OR:Orange