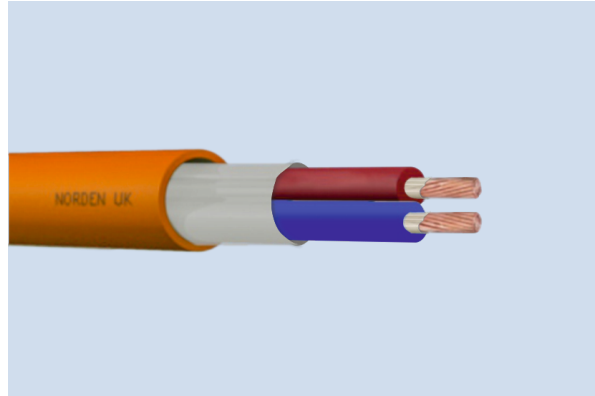


PH120 STRANDED CONDUCTOR SHIELDED FIRE RESISTANT CABLE



NORDEN FireNor PH120 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 Stranded annealed Tinned copper wires (Class 2)	Fire Barrier Mica Tape	Screen AL/PET Foil
Insulation XLPE - LSZH	Sheath LSZH	Drain Wire Stranded Tinned Copper
Insulation Colour 2 cores: Brown and Blue 3 cores: Brown, Black and Grey 4 cores: Brown, Black, Blue and Grey	Standard Packing Mode 100 mtr / Plywood Reel 500 mtr / Plywood Reel (optional)	Sheath Color RAL2004 Orange, Red

STANDARD COMPLIANCE

Flame Tests	Circuit Integrity	Smoke Density	Corrosive Gases Measurement	Other Standards
IEC 60332-1 IEC 60332-3-24	IEC 60331-21 EN 50200 PH 120 (120 Min) BS 6387 C, W, Z 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 (UL 2196 (2hRS))	IEC 61034-1/2	IEC 60754-1/2	NFPA 70,72 & 101 IEC 60228

ELECTRICAL & MECHANICAL CHARACTERISTICS

Properties	Value	
	1.5 mm ²	2.5 mm ²
Max. Conductor Resistant @ 20°C	12.1Ω /km	7.41Ω/ km
Min. Insulation Resistant @ 0°C	200 MΩxkm	
Operating Voltage	300/500 V	
Test Voltage	2000 V	
Temperature Rating (Fixed)	-30°C to + 90°C	
Temperature Rating (Flexing)	-10°C to + 90°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	Cable Diameter mm (±5 %)	Weight Kg/km
2 x 1.5	8.6 ± 0.2mm	9.00
3 x 1.5	9.2 ± 0.2mm	12.00
4 x 1.5	10.5 ± 0.2mm	16.00
2 x 2.5	10.4 ± 0.2mm	13.50
3 x 2.5	11.3 ± 0.2mm	18.00

ORDERING INFORMATION

Part Number	Description
5V-1502X	PH120 Stranded Conductor Shielded Fire Resistant Cable, 2C x 1.5mm ²
5V-1503X	PH120 Stranded Conductor Shielded Fire Resistant Cable, 3C x 1.5mm ²
5V-1504X	PH120 Stranded Conductor Shielded Fire Resistant Cable, 4C x 1.5mm ²
5V-2502X	PH120 Stranded Conductor Shielded Fire Resistant Cable, 2C x 2.5mm ²
5V-2503X	PH120 Stranded Conductor Shielded Fire Resistant Cable, 3C x 2.5mm ²

X → OR:Orange, RD: Red