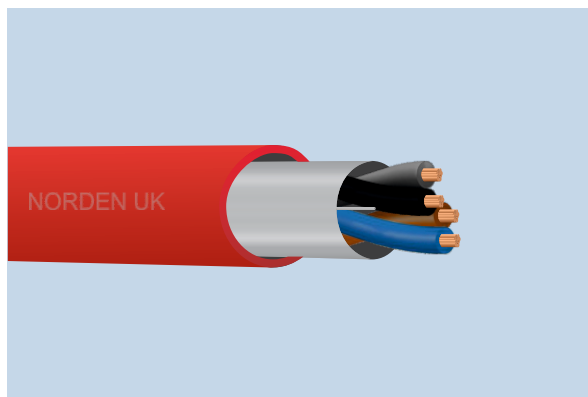


# PH120 STRANDED CONDUCTOR PAIRED FIRE RESISTANT CABLE



NORDEN FireNor PH120 stranded Conductor twisted pair 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

Pair 1 : Brown and Blue  
Pair 2 : Black and Grey

### Standard Packing Mode

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

### No. of Twist/Meter

6 nos

### Sheath Color

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 <sup>2</sup>	2.5 mm <sup>2</sup>
Max. Conductor Resistant @ 20°C	12.1 Ω/km	7.55 Ω/km
Min. Insulation Resistant @ 20°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

No. of Pairs / Cond.Cross Section ( mm <sup>2</sup> )	Insulation Diameter ( mm )	Cable Diameter ( mm )	Net Weight ( Kg/100m )
1 X 1.5	3.40	8.60	9.00
1 X 2.5	4.10	10.50	13.50
2 x 1.5	3.40	13.8 ± 0.2	16.98
2 x 2.5	4.10	16.0±0.1	24.20

## ORDERING INFORMATION

Part Number	Description
6J-1501X	PH120 Stranded Conductor Paired Fire Resistant Cable, 1P X 1.5 mm <sup>2</sup>
6J-2501X	PH120 Stranded Conductor Paired Fire Resistant Cable, 1P X 2.5 mm <sup>2</sup>
6J-1502X	PH120 Stranded Conductor Paired Fire Resistant Cable, 2P X 1.5 mm <sup>2</sup>
6J-2502X	PH120 Stranded Conductor Paired Fire Resistant Cable, 2P X 2.5 mm <sup>2</sup>

X → RD: Red