

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

<b>Conductor</b> Solid Bare Copper IEC 60228 class 1	<b>Earth Wire</b> Tinned Copper to IEC 60228	<b>Screen</b> Aluminium Laminated Polyester Tape
<b>Insulation</b> Fire resistant silicon rubber (HD 22.1, BS 7655 EI2)	<b>Sheath</b> HFFR EN 50290-2, BS 7655 LTS1/LTS3 VDE 0207	<b>Separator</b> Polyester Type
<b>Insulation Colour</b> 2 Core: Blue/Brown	<b>Standard Packing Mode</b> 100 mtr / Plywood Reel 500 mtr / Plywood Reel (optional)	<b>Sheath Color</b> Red (RAL 3000) or White

Flame Tests	Insulation Integrity	Smoke Density	Corrosive Gases Measurement	LPCB Certified Standards
IEC 60332-1 IEC 60332-3-24 EN 50266-2-4	IEC 60331 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. EN 50200 PH 120 EN 50200(Annex E)	IEC 61034 EN 50268 HD 606	IEC 60754-2 EN 50267	BS 7629-1: 2008 BS 6387: 2013 (CWZ) EN 50200: 2006 (Class PH120) EN 50200: 2006 Annex E (30 mins) BS 8519 (Clause 11) BS 5266-1 (Clause 8.2.2a) BS 8539-6 (Clause 16.2) BS 5839-8 (Clause 27.6) BS 5839-1:2013 (Clause 26.2d Standard)

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Properties	Value	
	1.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Max. Conductor Resistant @ 20°C	12.0Ω/km	7.4 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)	-5°C to + 60°C	
Min. Bend Radius (Fixed)	8 x D	
Min. Bend Radius (Flexing)	15 x D	

## PHYSICAL INFORMATION

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

## ORDERING INFORMATION

Part Number	Description
55-1502X	Fire Resistant Cable PH120 SFR Insulation, 2C x 1.5mm <sup>2</sup>
55-2502X	Fire Resistant Cable PH120 SFR Insulation, 2C x 2.5 mm <sup>2</sup>

X → RD:Red WH:White OR:Orange