

# JE-H(St)H Bd FE180/PH120/E90

LSZH FireFighter® FFCi

## Application

Flame Retardant Characteristics / Low Smoke Emission / Without Poisoned and Corrosive Gases / Circuit Integrity 180 Minutes / Circuit Integrity with Mechanical Shock PH120/E90

- Indoors where people are densely populated
- In places where there is electromagnetic interference
- Instrumentation and control engineering
- Industrial electronics
- For signal transmission
- Indoor communication systems
- In safety and fire alarm systems
- In places where human life and valuable materials and equipment need to be protected

## Cable Design

Conductor	IEC 60228; VDE 0295; EN 60228 Class Electrolytic Copper
Insulation	Cross-linked Ceramic Forming Polymer Compound
Colour code	VDE 0815
Stranding	2 pair star quad, more than 2 pairs groups in layers
Wrapping	Pes Tape + Glass Fibre Tape
Screen	Tinned Copper Drain Wire + Al-Pes Tape
Outer Jacket	EN 50290-2-27 HFFR Compound
Colour	RAL 3000 Red or RAL 2003 Orange



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## Flame Performance Tests

Flame Retardant Test	IEC 60332-1-2, VDE 0482-332-1-2, EN 60332-1-2, BS EN 60332-1-2
Flame Propagation Test	IEC 60332-3-24, VDE 0482-332-3-24, EN 60332-3-24, EN 60332-3-24
Smoke Density Test	IEC 61034-2, VDE 0482-1034-2, EN 61034-2, BS EN 61034-2
Corrosive Gas Test	IEC 60754-2, VDE 0482-754-2, EN 60754-2, BS EN 60754-2
Halogen Free Test	IEC 60754-1, VDE 0482-754-1, EN 60754-1, BS EN 60754-1
Circuit Integrity Test (Fe 180)	IEC 60331-23
Circuit Integrity With Shock Test (Ph 120)	EN 50200, VDE 0482-200, BS EN 50200

## Technical Characteristics

Loop Resistance		Insulation Resistance (Min)	Mutual Capacitance	Operating Voltage	Bending Radius	Test Voltage (50 Hz 1 Min) Core/Core	Temperature Range
[Ohm/km]		[MΩxkm]	[nF/km]	[V]	[mm]	[V]	[°C]
0,6 mm	130	100	120	225	10 x Ø	500	-40 to 70
0,8 mm	73,2	100	120	225	10 x Ø	500	-40 to 70
1,0 mm	44,6	100	120	225	10 x Ø	1000	-40 to 70
1,5 mm <sup>2</sup>	24,6	100	120	225	10 x Ø	1000	-40 to 70
2,5 mm <sup>2</sup>	15,1	100	120	225	10 x Ø	1000	-40 to 70

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