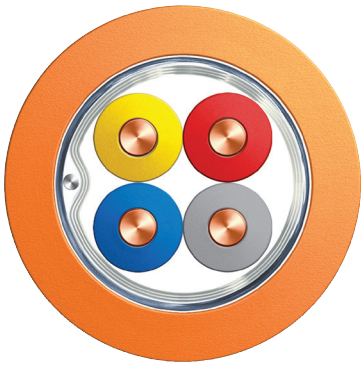
JE-H(St)H Bd FE180/PH120/E90

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 intereference
- 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
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

Flame Performance Tests

Flame Retardant Test	EN IEC 60332-1-2
Flame Propagation Test	EN IEC 60332-3-24
Smoke Density Test	EN IEC 61034-2
Corrosive Gas Test	EN IEC 60754-2
Halogen Free Test	EN IEC 60754-1
Circuit Integrity Test (FE180)	IEC 60331-23/-21
Circuit Integrity With Shock Test (Ph 120)	EN 50200
Circuit Integrity Test (E90)	DIN 4102-12

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Technical Characteristics

Insulation Resistance (Min) [MΩxkm]	Mutual Capacitance (Max) [nF/km]	Operating Voltage [V]	Bending Radius (Min) [mm]	Test Voltage (50 Hz 1 Min) Core/Core [V]	Test Voltage (50 Hz 1 Min) Core/Screen [V]	Temperature Range Fixed [°C]	Temperature Range Flexing [°C]
100	120	225	10 x Ø	0,8mm: 500 ≥1,0mm: 1000	2000	-30 to +70	-30 to +70

Specification

Formation [No. of Pairs]	Overall Diameter [mm]	Cable Weight [kg/km]	Conductor Resistance [Ω/km]
1x2x0,8 mm	6,0	55	73,2
2x2x0,8 mm	6,7	75	73,2
4x2x0,8 mm	9,4	120	73,2
8x2x0,8 mm	15,2	285	73,2
12x2x0,8 mm	15,9	315	73,2
1x2x1,0 mm^2	6,4	65	44,6
2x2x1,0 mm^2	7,2	90	44,6
4x2x1,0 mm^2	10,2	160	44,6
1x2x1,5 mm^2	8,0	95	24,6
2x2x1,5 mm^2	9,2	145	24,6
4x2x1,5 mm^2	12,6	235	24,6
1x2x2,5 mm^2	8,8	120	15,1
2x2x2,5 mm^2	10,1	95	15,1