

JE-H(St)H...Bd FE180 PH120

Fire alarm cables



Technical information

- Temperature range flexible -5°C up to +50°C, fixed -30°C up to +70°C
- Minimum bending radius; 10x cable Ø
- Nominal voltage; 300 V
- Test voltage; 800 V (core/core and core/screen)
- Mutual capacitance; 120nF/km (for the cables up to 4 pair, this value may be increased by 20%)
- Capacitance unbalances; 200pF/100m (20% of the values, but one value up to 400pF is allowed)
- Loop resistance @20°C
0,80mm² - max. 73,2 Ohm/km
1,0mm² - max. 36,2 Ohm/km
1,5mm² - max. 24,2 Ohm/km
- Insulation resistance; min. 100 M.Ohm x km

Installation cable according to DIN VDE 0815

TSE	TSEK UBM-03-BK-023
VDE	DIN VDE 0815
CE	Low Voltage Directive 2006/95/EC
	RoHS compliant

Cable construction

- Annealed solid copper conductor; Ø 0,80, 1,12 and 1,37mm
- Special core insulation halogen-free cross-linked polymer; type HI1 acc. to DIN VDE 0207 part 23
- Core and pair identification acc. to DIN VDE 0815
- Cores twisted in pairs and pairs stranded together in layers with optimal lay-length (2-paired versions are stranded in star quad cable design)
- Polyester tape used as separator over cores
- Tinned copper drain wire Ø 0,80mm, electrostatic screen (St) of plastic coated aluminium foil
- Outer sheath HF compound; acc. to DIN VDE 0207 part 24 and acc. to EN 50290 2-27
- Outer sheath colour, Orange RAL 2003

Features

- Vertical flame propagation acc. to, DIN VDE 0482-332-1-2, EN 60332 1-2, IEC 60332 1-2
- Vertical flame spread acc. to, DIN VDE 0482-332-3-24, EN 60332 3-24, IEC 60332 3-24, Cat. C
- Corrosive gas measurement acc. to DIN VDE 0482-267-2-2, EN 50267-2-2, IEC 60754
- Smoke density acc. to DIN VDE 0482-1034-2, EN 61034-2, IEC 61034-2
- FE180: Circuit integrity for 180 minutes under direct flame propagation acc. to DIN VDE 0472-814, IEC 60331
- PH120: Circuit integrity with shock for 120 minutes under direct flame propagation acc. to DIN VDE 0482-200, EN 50200

Application

These fire resistant halogen-free installation cables meet enhanced fire protection requirements concerning protection of people and high-value property. Do not emit any toxic or corrosive gases in the event of fire and resist the spread of fire. Used especially for installation in fire alarm systems. Thanks electrostatic screen and tin-plated drain wire, external electrical interferences of high frequency and electromagnetic field are minimized. Twisted pair structure minimizes crosstalk. For fixed installation on and under plaster, in dry and damp rooms. For outdoor use this cable should be installed under plaster only. Used for signal transmission in industrial applications, such as industrial complexes, public buildings, hotels, airports, under ground railway networks, hospitals.

Part No.	No. pairs x diameter [mm]	Outer Ø app. [mm]	Cu weight [kg/km]	Cable weight [kg/km]	Part No.	No. pairs x cross-sec [mm ²]	Outer Ø app. [mm]	Cu weight [kg/km]	Cable weight [kg/km]
112050	1x2x0,80	6,0	13,5	48	112057	1x2x1,0	6,8	22,2	56
112051	2x2x0,80	6,7	22,6	67	112058	2x2x1,0	7,6	40,0	84
112052	3x2x0,80	8,5	31,8	92	112071	1x2x1,5	7,6	30,6	71
112053	4x2x0,80	9,2	40,9	98	112072	2x2x1,5	8,5	56,9	111