

## JE-H(St)HRH...Bd FE180 E30-E90 fire alarm, black

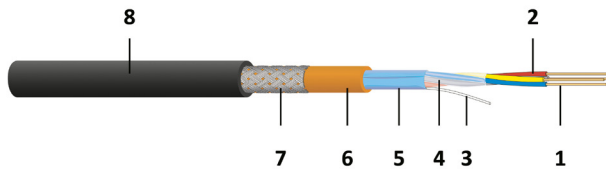
Fire alarm cable with steel wire braiding, max. 225V, Keram

halogen-free, with improved fire characteristics,

with reference to VDE 0815,

circuit integrity (FE180) in accordance with VDE 0472-814, IEC 60331, EN 50200,

System Circuit Integrity E30-E90\* in accordance with DIN 4102-12



- 1 Conductor: solid
- 2 Insulation: cross-linked polymer, halogen-free
- 3 Drain wire: copper, Ø 0.8 mm
- 4 Inner covering: plastic tape, halogen-free
- 5 Shielding: Al-laminated plastic foil, halogen-free
- 6 Inner sheath: FRNC/LSOH
- 7 Armoring: galvanised steel wire band
- 8 Sheath: FRNC/LSOH



### Description

Cables with intrinsic fire resistance are installed in all areas that require special protection of people and equipment against fire and fire damages and where strict security requirements must be fulfilled. Suitable for indoor and outdoor applications. The steel wire braiding serves as mechanical protection. The fire alarm cables correspond to the demands of System Circuit Integrity E30-E90\* in accordance with DIN 4102-12. System Circuit Integrity is guaranteed at an operating voltage up to 110V.

Permitted operating temperature at conductor of +70°C.

### Construction

Armouring (rodent protection)	Galvanised steel wire braid
Conductor	Bare copper, solid, 0.8 mm diameter, VDE 0815
Core colours	DIN VDE 0815
Inner sheath	Flame retardant polyolefin compound, VDE 0819 part 107, EN 50290-2-27 and VDE 0250-214 "HM2"
Insulation	Fire-resistant, cross-linked, high-performance Keram special compound, EN 50290-2-26
Outer sheath material	Flame retardant polyolefin compound VDE 0819 part 107, EN 50290-2-27 and VDE 0250-214 "HM 2"
Shielding	Al-laminated tape with copper drain wire Ø 0.8 mm

### General Properties

Installation temperature	-5 °C - +50 °C
Operating temperature	-30 °C - +70 °C

### Electrical properties

Capacitive coupling 0,8 mm, 100m @ 800Hz	200 pF/km
Maximum loop resistance 0,8 mm	73.2 Ω/km
Minimum insulation resistance	100 MΩ x km

operating capacity, 1km @ 800Hz	120 nF/km
peak voltage	225 V
Test voltage 50Hz, Core/Core	500 V
Test voltage 50Hz, Core/Screen	2,000 V

## Mechanical properties

Minimal crush resistance / 10cm	1,000 N
Minimum bending during installation (multi core)	7.5 x D
Minimum bending radius permanent (multi core)	7.5 x D

## Standards

Circuit integrity (FE180/PH120)	IEC 60331-11/-21 (180 minutes),VDE 0472-814 (FE180),BS 6387 C/W/Z,IEC 60331-1 (PH120),IEC 60331-2 (120 minutes),EN 50200 (PH120),VDE 0482-200 (PH120),VDE 0482-362,AREI-RGIE Art.104-FR1
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Art.104-SA
Flame Propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Art.104-F1
Flame Spread	IEC 60332-3-22/-24 Cat. A/C, EN 60332-3-22/-24 Cat. A/C, VDE 0482-332-3-22/-24 Cat. A/C, AREI-RGIE Art.104-F2
Smoke Density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD
System circuit integrity	DIN 4102-12, AREI-RGIE Art.104-FR2

## Note

System Circuit Integrity dependent on installation method.

## Versions

Material number	Product	Outer sheath colour	Outer sheath diameter [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit
191071	JE-H(St)HRH...Bd FE180 E30-E90 fire alarm 2x2x0.8 mm	black	9.3	25	125	0.26	by the metre
191554	JE-H(St)HRH...Bd FE180 E30-E90 fire alarm 4x2x0.8 mm	black	12	45	194	0.39	by the metre
194070	JE-H(St)HRH...Bd FE180 E30-E90 fire alarm 8x2x0.8 mm	black	18.2	85	419	0.93	by the metre
196354	JE-H(St)HRH...Bd FE180 E30-E90 fire alarm 12x2x0.8 mm	black	19.1	126	490	1.01	by the metre
191070	JE-H(St)HRH...Bd FE180 E30-E90 fire alarm 16x2x0.8 mm	black	20.5	166	557	1.17	by the metre
196265	JE-H(St)HRH...Bd FE180 E30-E90 fire alarm 20x2x0.8 mm	black	22.3	206	680	1.32	by the metre
196347	JE-H(St)HRH...Bd FE180 E30-E90 fire alarm 32x2x0.8 mm	black	26.7	326	912	1.72	by the metre

Additional dimensions available on request.