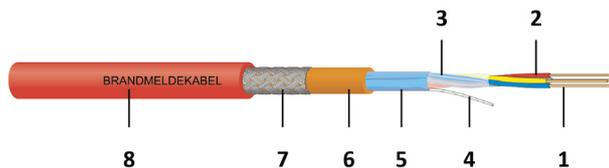


JE-H(St)HRH...Bd FE180 E30-E90 fire alarm

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/LS0H
- 7 Armouring: galvanised steel wire band
- 8 Sheath: FRNC/LS0H



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 applications. For outdoor applications, protection must be provided against exposure to direct sunlight. 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

Conductor	Bare copper, solid, 0.8 mm diameter, VDE 0815
Insulation	Fire-resistant, cross-linked, high-performance Keram special compound, EN 50290-2-36
Core colours	VDE 0815
Shielding	Al-laminated tape with copper drain wire Ø 0.8 mm
Inner sheath	Flame retardant polyolefin compound, VDE 0819-107, EN 50290-2-27 and VDE 0250-214 "HM2"
Armouring (rodent protection)	Galvanised steel wire braid
Outer sheath material	Flame retardant polyolefin compound VDE 0819-107, EN 50290-2-27 and VDE 0250-214 "HM 2"

General properties

Circuit integrity	FE 180
System circuit integrity	E90
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	IEC 60331-11/-21 (180 minutes), VDE 0472-814 (FE180), BS 6387 C/W/Z, IEC 60331-1 (120 minutes), IEC 60331-2 (120 minutes), EN 50200 (PH120 minutes), VDE 0482-200 (PH120), AREI-RGIE Art.104-FR1
System circuit integrity	DIN 4102-12, AREI-RGIE Art.104-FR2
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD
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, EN 60332-3-22/-24, VDE 0482-332-3-22/-24, AREI-RGIE Art.104-F2

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	GTIN / EAN
188119	JE-H(St)HRH...Bd FE180 E30-E90 fire alarm 2x2x0.8 mm	red	9.2	25	124	0.26	by the metre	40393910072921
188120	JE-H(St)HRH...Bd FE180 E30-E90 fire alarm 4x2x0.8 mm	red	12	45	191	0.39	by the metre	40393910072914
188127	JE-H(St)HRH...Bd FE180 E30-E90 fire alarm 8x2x0.8 mm	red	18.2	85	418	0.93	by the metre	40393910072877
188128	JE-H(St)HRH...Bd FE180 E30-E90 fire alarm 12x2x0.8 mm	red	19.1	126	489	1.01	by the metre	40393910072860
188129	JE-H(St)HRH...Bd FE180 E30-E90 fire alarm 20x2x0.8 mm	red	22.5	206	679	1.32	by the metre	40393910072853
188346	JE-H(St)HRH...Bd FE180 E30-E90 fire alarm 32x2x0.8 mm	red	26.7	326	911	1.72	by the metre	40393910072365

Additional dimensions available on request.

