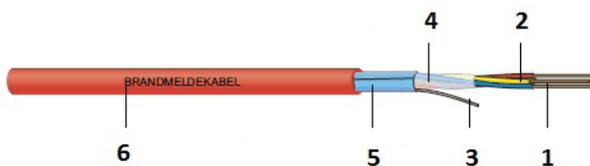


# JE-H(St)H...Bd FE180 E30-E90 fire alarm B2<sub>ca</sub>

Fire alarm cable, 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  
Fire behaviour according to EN 50575, EN 13601-6



- 1 Conductor: solid
- 2 Insulation: cross-linked polymer, zero halogen
- 3 Drain wire: Ø 0.8 mm
- 4 Separator: plastic tape, zero halogen
- 5 Shielding: Al-laminated tape, zero halogen
- 6 Sheath: FRNC/LSZH



## Descrizione

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 cable should only be laid directly in earth or water if a protective conduit is used. These 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. Suitable according to VKF fire protection guideline in escape routes and in tunnels according to Astra guideline 13022.

## Costruzione

Conduttore	Bare copper, solid, 0.8 mm diameter, VDE 0815
Isolamento	Fire-resistant, cross-linked, high-performance Keram special compound, EN 50290-2-36
Colori delle anime	VDE 0815
Shielding	Al-laminated tape with copper drain wire Ø 0.8 mm
Materiale della guaina esterna	Flame retardant polyolefin compound VDE 0819-107, EN 50290-2-27 and VDE 0250-214 "HM 2"
Colore della guaina esterna	rosso

## Proprietà generali

Integrità del circuito	E90
Integrità dell'isolamento	FE 180
Installation temperature	-5 °C - +50 °C
Operating temperature	-30 °C - +70 °C

## Proprietà elettriche

Capacitive coupling 0,8 mm, 100m @ 800Hz	200 pF/km
Minimum insulation resistance	100 MΩ x km
operating capacity, 1km @ 800Hz	120 nF/km
peak voltage	225 V
resistenza massima del loop 0,8 mm	73,2 Ω/km
Test voltage 50Hz, core/core	500 V
Test voltage 50Hz, core/screen	2.000 V

## Proprietà meccaniche

Curvatura minima durante l'installazione (multicore)	7.5 x D
Minimum bending radius permanent (multi core)	7.5 x D
Resistenza minima allo schiacciamento / 10cm	1.000 N

## Standards

Integrità del circuito (FE180)	IEC 60331-11/-21 (180 minutes), VDE 0472-814 (FE180), IEC 60331-1 (120 minutes), IEC 60331-2 (120 minutes), EN 50200 (PH120 minutes), NBN 713-020 (Rf 1 1/2), VDE 0482-200 (PH120), AREI-RGIE Art.104-FR1
Integrità del circuito di sistema	DIN 4102-12, AREI-RGIE Art.104-FR2
Reaction to fire (Euroclasses)	EN 13501-6: B2 <sub>ca</sub> , EN 50399
Densità del fumo	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD
Zero alogeni nessun gas corrosivo	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Art.104-SA
Propagazione della fiamma	AREI-RGIE Art.104-F1, EN 60332-1-2, IEC 60332-1-2, VDE 0482-332-1-2
Flame spread	IEC 60332-3-22/-24, EN 60332-3-22/-24, VDE 0482-332-3-22/-24, AREI-RGIE Art.104-F2

## Nota

System Circuit Integrity is dependent on installation method.

## Versioni

Codice art.	Prodotto	Reaction to fire	Diametro esterno della guaina [mm]	Tasso di CU [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Unità di imballaggio
18809300BZ	JE-H(St)H...Bd FE180 E30-E90 fire alarm 1x2x0,8 mm	B2 <sub>ca</sub> -s1a,d1,a1	5,6	15	43	0,108	al metro
18809800BZ	JE-H(St)H...Bd FE180 E30-E90 fire alarm 2x2x0,8 mm	B2 <sub>ca</sub> -s1a,d1,a1	6,3	25	60	0,138	al metro
18810100BZ	JE-H(St)H...Bd FE180 E30-E90 fire alarm 4x2x0,8 mm	B2 <sub>ca</sub> -s1a,d1,a1	9,0	45	102	0,224	al metro
18810300BZ	JE-H(St)H...Bd FE180 E30-E90 fire alarm 8x2x0,8 mm	B2 <sub>ca</sub> -s1a,d1,a1	13,9	85	222	0,522	al metro
18810500BZ	JE-H(St)H...Bd FE180 E30-E90 fire alarm 12x2x0,8 mm	B2 <sub>ca</sub> -s1a,d1,a1	14,8	126	281	0,605	al metro
18810700BZ	JE-H(St)H...Bd FE180 E30-E90 fire alarm 16x2x0,8 mm	B2 <sub>ca</sub> -s1a,d1,a1	16,6	166	326	0,628	al metro

Codice art.	Prodotto	Reaction to fire	Diametro esterno della guaina [mm]	Tasso di CU [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Unità di imballaggio
18810900BZ	JE-H(St)H...Bd FE180 E30-E90 fire alarm 20x2x0,8 mm	B2 -s1a,d1,a1	18,8	206	423	0,842	al metro

Additional dimensions available on request.

Con riserva di modifiche tecniche

A partire da 2023-10-30 08:22:38