

BETAflam® Fire alarm cables

DIN VDE 0815



Advantages

- Very high safety standards
- System circuit integrity acc. to DIN 4102 part 12
- DIN approved with LEONI BETAfixs® cable support system
- Halogen-free
- In compliance with RoHS directive

BETAflam® JE-H(St)HRH FE180 / E30-E90

Applications

Shielded installation cable with steel braid armour for fixed installation in cable systems with improved fire performance and system circuit integrity acc. to DIN 4102 part 12, e.g. for:

- fire alarm systems and signalling etc.
- recommended in areas where people gather and for protection of valuables

Construction

- | | |
|-----------------------|---|
| ■ Conductors | Bare annealed copper |
| ■ Flame barrier | MICA tape |
| ■ Insulation | BETAflam® copolymer |
| ■ Banding | Polyester and glass fiber tape |
| ■ Screen | Aluminium laminated polyester tape with bonding wire 0.8 mm Ø |
| ■ Sheath | BETAflam® copolymer |
| ■ Armouring | Galvanised steel wire braid |
| ■ Outer sheath | BETAflam® copolymer |
| ■ Core identification | acc. to VDE 0815
(bl/rd, gr/ye, gn/br, wt/bk) |
| ■ Sheath colour | Red (fire alarm cable BMK) |

Electrical characteristics

Operating voltage	225 V peak
Test voltage	0.5 / 2 kV, 50 Hz

Thermal characteristics

Operation temperature	-30 °C up to +70 °C
Laying temperature	-5 °C up to +50 °C

Bending radius

during laying	> 12 × outer Ø
fixed	> 8 × outer Ø

Laying conditions

- Fixed installation in dry and moist areas
- In or under plaster
- Not suitable in earth or concrete
- Outdoor laying only when protected from direct sunlight and other external impacts

Standards / Material properties

- Halogen-free: IEC 60754-1, EN 50267-2-1, VDE 0482-267-2-1
- No corrosive gases: IEC 60754-2, EN 50267-2-2, VDE 0482-267-2-2
- No toxic gases: NF X 70-100
- Low smoke density: IEC 61034-1 and -2, EN 61034-1 and -2, VDE 0482-1034-1 and -2
- Flame retardant: IEC 60332-1, EN 60332-1, VDE 0482-332-1
- No flame propagation: IEC 60332-3-10 and -3-24, EN 60332-3-10, -24, VDE 0482-332-3-24
- Circuit integrity FE180: IEC 60331-11 and -21, VDE 0472-814
- Circuit integrity with shock: EN 50200 PH90 (up to Ø 20 mm)
- System circuit integrity: DIN 4102-12, E30, E60, E90, depending on laying system

Cable type	Sheath colour	Construction	Outer Ø	Weight	Cu factor	Order no.	
						Germany	Switzerland
		n×2×mm	mm	kg/km	kg/km		
JE-H(St)HRH FE180 / E30-E90 BMK	● Red	2×2×0.8	11.7	185	25	LKI 1906 7100 0000	190671
JE-H(St)HRH FE180 / E30-E90 BMK	● Red	4×2×0.8	15.7	298	45	LKI 1917 3500 0000	191735
JE-H(St)HRH FE180 / E30-E90 BMK	● Red	8×2×0.8	21.6	509	85	LKI 2108 1100 0000	210811
JE-H(St)HRH FE180 / E30-E90 BMK	● Red	12×2×0.8	23.8	620	126	LKI 2108 1200 0000	210812
JE-H(St)HRH FE180 / E30-E90 BMK	● Red	16×2×0.8	27.7	730	166		
JE-H(St)HRH FE180 / E30-E90 BMK	● Red	20×2×0.8	28.9	942	206	LKI 2108 1300 0000	210813
JE-H(St)HRH FE180 / E30-E90 BMK	● Red	32×2×0.8	41.1	1702	326	LKI 2119 3900 0000	211939
JE-H(St)HRH FE180 / E30-E90 BMK	● Red	40×2×0.8	42.3	1880	407		225700
JE-H(St)HRH FE180 / E30-E90 BMK	● Red	52×2×0.8	45.2	2130	529	LKI 8004 5600 0000	
JE-H(St)HRH FE180 / E30-E90 BMK	● Red	80×2×0.8	52.0	2800	810	LKI 8004 5400 0000	
JE-H(St)HRH FE180 / E30-E90 BMK	● Red	100×2×0.8	60.5	3000	1030		

Core identification acc. to VDE 0815: ● bl/rd ● gr/ye ● gn/br ● wt/bl

Cables 2×2×... mm are twisted in Star Quad configuration.

Further designs upon request