

BETAflam® Signal and 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
- Smooth and compact

BETAflam® JE-HH FE180/E30 SIR

Applications

Unshielded installation cable for telecommunication and information processing units 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 |
| ■ Insulation | Silicone |
| ■ Flame barrier | Polyester tape |
| ■ Sheath | BETAflam® copolymer |
| ■ Core identification | acc. to VDE 0815 (bl/rd) |
| ■ Sheath colour | Orange or 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 +90 °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
- 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 EN 60332-3-10, -3-23 and -3-24, VDE 0482-332-3-10, -332-3-23 und -332-3-24
- Circuit integrity FE180: IEC 60331-11 and -21, VDE 0472-814
- System circuit integrity: DIN 4102-12 E30-E60, depending on laying system

Cable type	Sheath colour	Construction	Outer Ø	Weight	Cu factor	Order no.	
			mm	kg / km	kg / km	Germany	Switzerland
JE-HH FE180/E30 SIR	● Orange	1×2×0.8 mm	5.7	40	9,6	∅	∅
JE-HH FE180/E30 SIR	● Orange	1×2×1.0 mm	6.7	55	14,4	∅	306599
JE-HH FE180/E30 SIR	● Orange	1×2×1.5 mm ²	7.7	79	29	∅	∅
JE-HH FE180/E30 SIR	● Red	1×2×0.8 mm	5.7	40	9,6	∅	308024
JE-HH FE180/E30 SIR	● Red	1×2×1.0 mm	6.7	55	14,4	∅	306600
JE-HH FE180/E30 SIR	● Red	1×2×1.5 mm ²	7.7	79	29	∅	∅
Further designs upon request						∅ on request	