

# 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 BETAfixss® cable support system
- Halogen-free
- In compliance with RoHS directive
- Smooth and compact

## BETAflam® JE-H(St)H FE180/E30 SIR

### Applications

Shielded installation cable 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
■ Banding	Polyester tape
■ Screen	Aluminium laminated polyester tape with bonding wire 0.8 mm Ø
■ Sheath	BETAflam® copolymer
■ Core identification	acc. to VDE 0815 (bl/rd, gr/ye, gn/br, wt/bk)
■ 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, 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)H FE180 / E30 SIR	● Orange	1 × 2 × 0.8	5.9	48	15	LKI 3052 2700 0000	305227
JE-H(St)H FE180 / E30 SIR	● Orange	2 × 2 × 0.8	7.4	75	25	LKI 3052 2800 0000	305228
JE-H(St)H FE180 / E30 SIR	● Orange	4 × 2 × 0.8	10.3	119	45	LKI 3052 2900 0000	305229
JE-H(St)H FE180 / E30 SIR	● Orange	8 × 2 × 0.8	15.0	240	85	LKI 3052 3200 0000	305232
JE-H(St)H FE180 / E30 SIR	● Orange	12 × 2 × 0.8	16.6	311	126	LKI 3052 3300 0000	305233
JE-H(St)H FE180 / E30 SIR	● Orange	20 × 2 × 0.8	20.4	484	206	LKI 3052 3400 0000	305234
JE-H(St)H FE180 / E30 SIR BMK	● Red	1 × 2 × 0.8	5.9	48	15	LKI 3052 3500 0000	305235
JE-H(St)H FE180 / E30 SIR BMK	● Red	2 × 2 × 0.8	7.4	75	25	LKI 3052 3600 0000	305236
JE-H(St)H FE180 / E30 SIR BMK	● Red	4 × 2 × 0.8	10.3	119	45	LKI 3052 3700 0000	305237
JE-H(St)H FE180 / E30 SIR BMK	● Red	8 × 2 × 0.8	15.0	240	85	LKI 3052 3800 0000	305238
JE-H(St)H FE180 / E30 SIR BMK	● Red	12 × 2 × 0.8	16.6	311	126	LKI 3052 3900 0000	305239
JE-H(St)H FE180 / E30 SIR BMK	● Red	20 × 2 × 0.8	20.4	484	206	LKI 3052 4100 0000	305241

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

Cables 2 × 2 × 0.8 mm are twisted in Star Quad configuration

Further designs upon request