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

BETAflam® JE-H(St)H FE180 / E30

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
Flame barrier	MICA tape
Insulation	BETAflam® copolymer
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 + 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, depending on laying system

Cable type	Sheath colour	Construction	Outer Ø	Weight	Cu factor	Order no.	
		n×2×mm	mm	kg / km	kg / km	Germany	Switzerland
JE-H(St)H FE180 / E30	Orange	1×2×0.8	6.2	50	15	LKI 2218 2900 0000	221829
JE-H(St)H FE180 / E30	Orange	2×2×0.8	7.7	78	25	LKI 2167 7200 0000	216772
JE-H(St)H FE180 / E30	Orange	2×2×0.8	7.7	78	25	LKI 8004 1300 0000*	21677205*
JE-H(St)H FE180 / E30	Orange	4×2×0.8	11.2	135	45	LKI 2183 6500 0000	218365
JE-H(St)H FE180 / E30	Orange	8×2×0.8	16.4	258	85	LKI 2241 1500 0000	224115
JE-H(St)H FE180 / E30	Orange	12×2×0.8	18.3	337	126	LKI 2241 1600 0000	224116
JE-H(St)H FE180 / E30	Orange	16×2×0.8	22.1	480	166	LKI 8004 1600 0000	
JE-H(St)H FE180 / E30	Orange	20×2×0.8	22.6	532	206	LKI 2241 1700 0000	224117
JE-H(St)H FE180 / E30 BMK	Red	1×2×0.8	6.2	50	15	LKI 2203 8000 0000	220380
JE-H(St)H FE180 / E30 BMK	Red	2×2×0.8	7.7	78	25	LKI 2167 7100 0000	216771
JE-H(St)H FE180 / E30 BMK	Red	2×2×0.8	7.7	78	25	LKI 8004 2800 0000	21677105*
JE-H(St)H FE180 / E30 BMK	Red	4×2×0.8	11.2	135	45	LKI 2183 6600 0000	218366
JE-H(St)H FE180 / E30 BMK	Red	8×2×0.8	16.4	258	85	LKI 2241 1200 0000	224112
JE-H(St)H FE180 / E30 BMK	Red	12×2×0.8	18.3	337	126	LKI 2241 1300 0000	224113
JE-H(St)H FE180 / E30 BMK	Red	16×2×0.8	22.1	480	166	LKI 3001 3800 0000	300138
JE-H(St)H FE180 / E30 BMK	Red	20×2×0.8	22.6	532	206	LKI 2241 1400 0000	224114
JE-H(St)H FE180 / E30 BMK	Red	1×2×1.0 mm²	7.7	74	24	LKI 2259 8100 0000	225981
JE-H(St)H FE180 / E30 BMK	Red	1×2×1.5 mm²	8.6	91	34	LKI 2205 7000 0000	220570
JE-H(St)H FE180 / E30 BMK	Red	1×2×2.5 mm²	9.5	120	53	LKI 2217 0300 0000	221703
JE-H(St)H FE180 / E30 BMK	Red	2×2×1.5 mm²	10.4	145	62	LKI 2219 0700 0000	221907

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

* Standardized length 1×500 m