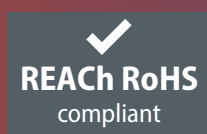
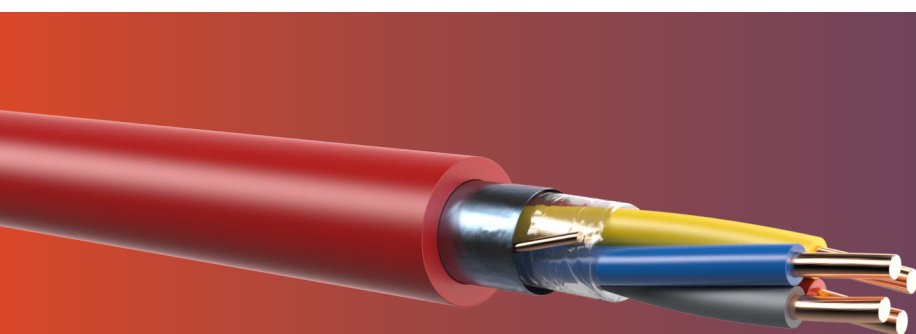


SIGNAL AND FIRE ALARM CABLES

BETAflam® JE-H(St)H FE180/E30 S

DIN VDE 0815



Applications

Shielded installation cable for telecommunications and information processing systems. For fixed installation in electrical cable systems with improved fire behaviour and system integrity according to DIN 4102 Part 12, e.g. for:

- Fire alarm systems, voice alarm systems, etc.
- Recommended in public buildings to protect human life and health as well as constructions and their equipment

Construction

Conductors	Bare annealed copper
Core insulation	Silicone
Taping	Polyester tape
Shielding	Aluminium-coated film with drain wire 0.8mm Ø
Sheath	BETAflam® Copolymer
Core colours	Acc. to VDE 0815 (bu/rd, gy/ye, gn/bn, wh/bk)
Sheath colour	Orange or red (fire alarm cables)

Benefits

- Maximum safety performance
- System integrity acc. to DIN 4102 Part 12
- DIN approval with **BETAfixss®** laying system
- Numerous ABP's for standard laying systems as well as all common special laying systems
- Halogen-free
- Flexible and compact

Electrical characteristics

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

Thermal characteristics

Operating temperature	–30 °C to +70 °C
Laying temperature	–5 °C to +50 °C

Bending radius

During laying	>12 × outer-Ø
Fixed	>8 × outer-Ø

Standards / material properties

Halogen-free	IEC 60754-1; EN 60754-1; VDE 0482-754-1
No corrosive gases	IEC 60754-2; EN 60754-2; VDE 0482-754-2
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 spread	IEC EN 60332-3-10, -3-23 and -3-24; VDE 0482-332-3-10, -332-3-23 and -332-3-24
Circuit integrity FE180	IEC 60331-11 and -23; VDE 0472-814
System circuit integrity	DIN 4102-12 E30, depending on laying system

Laying conditions

- Fixed, in humid or dry rooms
- Surface/concealed installation
- Not for laying in earth
- Installation outdoors only when protected from direct sunlight and external impacts

Cable type	Nominal cross-section (n × 2 × mm)	Outer-Ø (mm)	Weight (kg/km)	Fire load (kWh/m)	
JE-H(St)H FE180/E30 S	1 × 2 × 0.8	6.1	50	0.14	