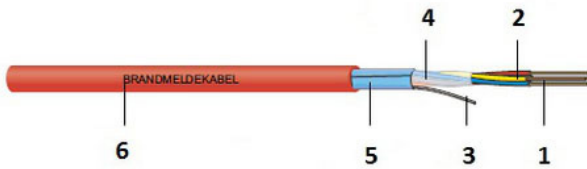


JE-H(St)H...Bd FE180 E30 L fire alarm

Fire alarm cable, max. 225V, Keram

halogen-free, with improved fire characteristics,
with reference to VDE 0815,
circuit integrity (FE180) in accordance with VDE 0472-814, IEC 60331, EN 50200,
System Circuit Integrity E30* in accordance with DIN 4102-12



1 x 2 x 0.8 and 2 x 2 x 0.8
also available in PullQuick box

- 1 Conductor: solid
- 2 Insulation: cross-linked polymer, zero halogen
- 3 Drain wire: Ø 0.8 mm
- 4 Separator: plastic tape, zero halogen
- 5 Shielding: Al-laminated tape, zero halogen
- 6 Sheath: FRNC/LSZH



Description

Cables with intrinsic fire resistance are installed in all areas that require special protection of people and equipment against fire and fire damages and where strict security requirements must be fulfilled. Suitable for indoor applications. For outdoor applications, protection must be provided against exposure to direct sunlight. The cable should only be laid directly in earth or water if a protective conduit is used. These cables correspond to the demands of System Circuit Integrity E30* in accordance with DIN 4102-12. System Circuit Integrity is guaranteed at an operating voltage up to 110V. Permitted operating temperature at conductor of +70°C.

Construction

| | |
|-----------------------|---|
| Conductor | Bare copper, solid, 0.8 mm diameter, VDE 0815 |
| Insulation | Fire-resistant, cross-linked, high-performance Keram special compound, EN 50290-2-36 |
| Core colours | VDE 0815 |
| Shielding | Al-laminated tape with copper drain wire Ø 0.8 mm |
| Outer sheath material | Flame retardant polyolefin compound VDE 0819-107, EN 50290-2-27 and VDE 0250-214 "HM 2" |

General properties

| | |
|--------------------------|-----------------|
| Circuit Integrity | E30 |
| Insulation integrity | FE 180 |
| Installation temperature | -5 °C - +50 °C |
| Operating temperature | -30 °C - +70 °C |

Electrical properties

| | |
|--|-------------|
| Capacitive coupling 0,8 mm, 100m @ 800Hz | 200 pF/km |
| Maximum loop resistance 0,8 mm | 73.2 Ω/km |
| Minimum insulation resistance | 100 MΩ x km |
| operating capacity, 1km @ 800Hz | 120 nF/km |
| peak voltage | 225 V |
| Test voltage 50Hz, core/core | 500 V |
| Test voltage 50Hz, core/screen | 2,000 V |

Mechanical properties

| | |
|--|---------|
| Minimal crush resistance / 10cm | 1,000 N |
| Minimum bending during installation (multi core) | 7.5 x D |
| Minimum bending radius permanent (multi core) | 7.5 x D |

Standards

| | |
|---------------------------------|---|
| Insulation Integrity (FE180) | IEC 60331-11/-21 (180 minutes), VDE 0472-814 (FE180), BS 6387 C/W/Z, IEC 60331-1 (120 minutes), IEC 60331-2 (120 minutes), EN 50200 (PH120 minutes), NBN 713-020, VDE 0482-200 (PH120), AREI-RGIE Art.104-FR1 |
| System circuit integrity | DIN 4102-12, AREI-RGIE Art.104-FR2 |
| Smoke density | IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD |
| Zero halogen no corrosive gases | IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Art.104-SA |
| Flame propagation | IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Art.104-F1 |
| Flame spread | IEC 60332-3-22/-24, EN 60332-3-22/-24, VDE 0482-332-3-22/-24, AREI-RGIE Art.104-F2 |

Note

System Circuit Integrity is dependent on installation method.

Versions

| Material number | Product | Outer sheath colour | Outer sheath diameter [mm] | CU rate [kg/km] | Weight [kg/km] | Fire load [kWh/m] | Packing unit | GTIN / EAN |
|-----------------|---|---------------------|----------------------------|-----------------|----------------|-------------------|---------------------|----------------|
| 18837400ZK | JE-H(St)H...Bd FE180 E30 L fire alarm 2x2x0.8 mm | red | 6.1 | 25 | 59 | 0.123 | 1000 m drum | 40393910035230 |
| 18837400ZL | JE-H(St)H...Bd FE180 E30 L fire alarm 2x2x0.8 mm | red | 6.1 | 25 | 59 | 0.123 | 500 m drum | 40393910035223 |
| 18837400ZZ | JE-H(St)H...Bd FE180 E30 L fire alarm 2x2x0.8 mm | red | 6.3 | 25 | 60 | 0.123 | by the metre | 40393910035209 |
| 18837700ZP | JE-H(St)H...Bd FE180 E30 L fire alarm 1x2x0.8 mm | red | 5.4 | 15 | 40 | 0.123 | 250 m PullQuick box | 40393910210767 |
| 18837400ZP | JE-H(St)H...Bd FE180 E30 L fire alarm 2x2x0.8 mm | red | 6.1 | 25 | 60 | 0.123 | 250 m PullQuick box | 40393910210774 |
| 188375 | JE-H(St)H...Bd FE180 E30 L fire alarm 4x2x0.8 mm | red | 9 | 45 | 102 | 0.21 | by the metre | 40393910072167 |

Additional dimensions available on request.

