# Communication cable with circuit integrity JE-H(St)H FE180/E30-E90

**Application**: For signal transmission within systems for measuring-, control-, data- and regulation technology and for use as an installation cablefire hazard rooms with a high concentration of people and material assets and for installation of fire survival cable systems according to DIN 4102 part 12. For fixed installation in dry and wet rooms.

Stranding: cores twisted into pairs, 4 pairs layed up into sub-units (2-pairs cable stranded as one star-quad), sub-units layed up in layers.

## Construction and technical data:

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|---|---|
| **Standard:** | VDE 0815 |
| **Conductor material:** | copper, bare |
| **Conductor construction:** | Class 1 = solid |
| **Insulation:** | FRNC-compound HI1 |
| **Screen:** | Foil |
| **Sheathing material:** | FRNC-compound HM2 |
| **Colour of outer sheath:** | orange |
| **Flame-retardant:** | VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C) |
| **Smoke density:** | DIN EN 61034/IEC 61034 |
| **Halogen-free:** | DIN EN 50267/IEC 60754 |
| **Fire-resistant:** | VDE 0472-814/IEC 60331-11 (FE 180) |
| **Circuit integrity:** | E30-E90 |
| **Permitted outer cable temperature, fixed, °C:** | -5 - +50 °C |
| **Bending radius, fixed installation:** | 7.5 x Ø |


*The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.*

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**Maximum operating capacity:** 120 nF/km

**Core identification:** colours acc. to VDE 0815

**peak operating voltage, V:** 225 V

| part name | Dl [mm] | Ø [mm] | Cu | G [kg] |
|---|---|---|---|---|
| 02X2X0.8 | 0.8 | 7.4 | 25 | 76 |

| | |
|---|---|
| Dl | diameter conductor |
| Ø | outer diameter approx. |
| Cu | Copper weight (GER) |
| G | net weight per 1000 |