

JE-H(St)H...Bd FE180/E30-E90

Installation cable with insulation integrity FE 180 and circuit integrity E30-E90, screened

DESIGN



- 1 | Copper conductor, round solid (RE)
- 2 | Core insulation (silicone rubber), cores pair stranded, pairs stranded in groups
- 3 | Inner covering (halogen-free plastic tape)
- 4 | Screen (plastic laminated aluminum tape with drain wire)
- 5 | Sheath (halogen-free polymer compound, orange)

APPLICATION

Intended for the use in measurement and control systems in dry or damp premises and for fixed installations on or under plaster. Suitable for hotels, hospitals, underground railways, airports etc. to protect people and technical building equipment in the event of fire if circuit integrity is required (circuit integrity is only maintained if these cables are installed with specified supporting elements). Not allowed for installations underground or in water. These cables are not UV-protected.

TECHNICAL DATA

- Standard:** adapted to DIN VDE 0815
- Rated voltage:** max. 225 V_{ss}
- Test voltage:** core/core: 500 V/50 Hz
core/screen: 2 kV/50 Hz
- Temperature range:** laying temperature: min. -5 °C
operating temperature
- fixed: -30 °C to +70 °C
- in motion: -5 °C to +50 °C
- Bending radius (min.):** 7.5 x Ø of cable
- Core identification:** DIN VDE 0815
- Fire properties:** flame retardant: EN 60332-1-2
halogen-free, non-corrosive combustion gases: EN 50267-2-2
reduced flame propagation: EN 60332-3-24
low smoke emission: EN 61034-2
insulation integrity FE 180: IEC 60331-21, DIN VDE 0472-814
circuit integrity E 30 resp. E90: DIN 4102-12
- Certificate:** EZÚ Czech Republic, VDE Germany

ELECTRICAL PARAMETERS

Conductor diameter	(mm)	0.8
Loop resistance, max.	(Ω/km)	73.2
Mutual capacitance, max. at 800 Hz (up to 4 pairs)	(nF/km)	144
Mutual capacitance, max. at 800 Hz	(nF/km)	120
Capacitance unbalance, max. at 800 Hz (80 % of values)	(pF/500 m)	200
Capacitance unbalance, max. at 800 Hz (100 % of values)	(pF/500 m)	400
Insulation resistance, min.	(MΩ.km)	100

Number of pairs x nominal diameter (mm)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
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1 x 2 x 0.8	6.6	60	100 R, 1,000 D
2 x 2 x 0.8	7.3	85	100 R, 1,000 D



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Number of pairs x nominal diameter (mm)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
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4 x 2 x 0.8	10.4	130	100 R, 1,000 D
8 x 2 x 0.8	12.9	205	100 R, 1,000 D
12 x 2 x 0.8	15.1	280	500 D, 1,000 D
16 x 2 x 0.8	17.0	350	500 D, 1,000 D
20 x 2 x 0.8	19.1	430	500 D, 1,000 D
24 x 2 x 0.8	20.6	505	500 D, 1,000 D
28 x 2 x 0.8	21.9	575	500 D, 1,000 D
32 x 2 x 0.8	23.2	665	500 D, 1,000 D
36 x 2 x 0.8	24.8	735	500 D, 1,000 D
40 x 2 x 0.8	26.0	805	500 D, 1,000 D

Subject to technical changes.