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SAFETY CABLES

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

SiR/FRNC halogen-free installation cable with
insulation integrity and circuit integrity,
screened



TECHNICAL DATA



Standard
adapted to DIN VDE 0815



Rated Voltage
max. 225 Vss



Test Voltage
core/core 500 V / 50 Hz
core/screen 2000 V / 50 Hz



Bending radius (min.)
7,5 x Ø of cable



Core identification
DIN VDE 0815



Fire properties
EN 60332-1-2: self-extinguishing
EN 60754-2: halogen-free, non-corrosive
combustion gases
EN 61034-2: low smoke emission
EN 60332-3-22: reduced flame propagation
DIN 4102-12: circuit integrity



Certificate
VDE Germany



Temperature range
Laying temperature: min. -5°C
Operating temperature: -30°C up to 70°C

DESIGN



Copper conductor, round solid (RE)



Core insulation (silicone rubber), cores pair stranded,
marking with green thread



Inner covering (plastic tape)



Screen (plastic laminated aluminium tape with drain wire)



Sheath (halogen-free polymer compound, orange)

Electrical Parameters

Conductor diameter	mm	0.8
Loop resistance max.	Ω/km	73.2
Mutual capacitance (approx. value), at 800 Hz	nF/km	144
Mutual capacitance, max.	nF/km	120
Capacitance unbalance, max. k	pF/500m	400
Insulation resistance, min. at 20 °C	MΩ/km	100

Number of pairs x nominal diameter	Outer diameter appr. (mm)	Total weight appr. (kg/km)
1 x 2 x 0.8	7.3	63
2 x 2 x 0.8	8.1	86
4 x 2 x 0.8	11.3	140
8 x 2 x 0.8	13.9	225
12 x 2 x 0.8	16.3	307
16 x 2 x 0.8	18.3	386
20 x 2 x 0.8	20.5	482
32 x 2 x 0.8	25.3	734
52 x 2 x 0.8	31.0	1108

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