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SAFETY CABLES WITH CIRCUIT INTEGRITY

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

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



TECHNICAL DATA



Standard
adapted to DIN VDE 0815



Certificate
VDE Germany



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



Rated Voltage
max. 225 V_{ss}



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



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



Core identification
DIN VDE 0815



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

DESIGN



1 Copper conductor, round solid (RE)



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



3 Inner covering (plastic tape)



4 Screen (plastic laminated aluminium tape with drain wire)



5 Sheath (halogen-free polymer compound, orange)

Electrical parameters

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

Number of pairs x nominal diameter	Outer diameter appr. (mm)	Total weight appr. (kg/km)
1 x 2 x 0.8	7.1	62
2 x 2 x 0.8	7.9	84
4 x 2 x 0.8	11.1	138
8 x 2 x 0.8	13.7	224
12 x 2 x 0.8	16.1	305
16 x 2 x 0.8	18.1	384
20 x 2 x 0.8	20.3	480
32 x 2 x 0.8	25.1	733
52 x 2 x 0.8	30.8	1106

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