



# JE-H(St)H...Bd FE180/E30-E90 RAL3020

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

SAFETY CABLES WITH CIRCUIT INTEGRITY

Measuring and control cable providing functional integrity in the event of fire.  
Not designed for laying in earth or water. Not UV and water resistant.



## TECHNICAL DATA

<p> <b>Standard</b> adapted to DIN VDE 0815</p> <hr/> <p> <b>Certificate</b> VDE Germany</p> <hr/> <p> <b>Test Voltage</b> core/core 500 V / 50 Hz core/screen 2000 V / 50 Hz</p> <hr/> <p> <b>Rated Voltage</b> max. 225 Vss</p>	<p> <b>Bending radius (min.)</b> 7,5 x Ø of cable</p> <hr/> <p> <b>Fire properties</b> 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 IEC 60331-23: insulation integrity FE180 DIN 4102-12: circuit integrity E30-E90</p>	<p> <b>Core identification</b> DIN VDE 0815</p> <hr/> <p> <b>Temperature range</b> Laying temperature: min. -5°C Operating temperature: -30°C up to 70°C</p>
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## 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, red)

## 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	7.3	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

## CONTACT PERSON

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