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#### SAFETY CABLES

# 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



**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

|                                               |         |      |
|-----------------------------------------------|---------|------|
| 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                       |

## CONTACT PERSON

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