



# 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



**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  $\phi$  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  
IEC 60331-23: insulation integrity FE180  
DIN 4102-12: circuit integrity E30-E90



**Certificate**  
VDE Germany



**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, 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                        | 1108                       |

## CONTACT PERSON

**Ing. Dan Bachtik**  
 Product Supervisor  
 +420734366090  
 dan.bachtik@prakab.cz

