

SAFETY CABLES WITH CIRCUIT INTEGRITY

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

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 Vss



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



**Core identification**  
DIN VDE 0815



**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, red)

## Electrical parameters

|                                               |         |      |
|-----------------------------------------------|---------|------|
| Conductor diameter                            | mm      | 0.8  |
| Loop resistance max.                          | Ω/km    | 73.2 |
| Mutual capacitance (approx. value), at 800 Hz | nF/km   | 120  |
| Mutual capacitance, max.                      | nF/km   | 144  |
| 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                       |

## CONTACT PERSON

**Ing. Štěpán Laštůvka**  
 Product Supervisor  
 +420 732 912 682  
[stepan.lastuvka@prakab.com](mailto:stepan.lastuvka@prakab.com)

