

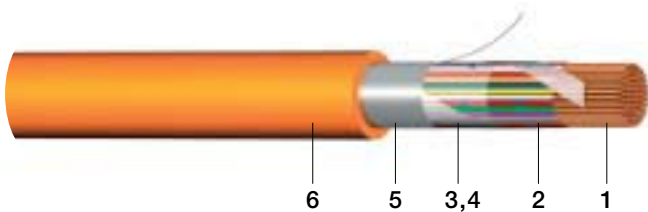
# JE-H(St)H...Bd FE180/E30 / JE-H(St)H...Bd FE180/E90

## Control cable for industrial electronics

### Standard: adapted to DIN VDE 0815

#### Usage:

For use in control and regulating systems and related installations. Suitable for interior applications in dry and damp premises, as well on or under plaster. Not suitable for power installation purposes and for direct burial. Since they are free from halogens and exhibit enhanced fire performance, these cables are used in those applications where in the event of fire, the negative effects on concentrations of people and valuable material goods must be minimised.



#### Construction:

- 1 Copper conductor, round solid (RE) with conductor taping (mica tape, only E90)
- 2 Core insulation (halogen-free polymer compound), conductors pair stranded, pairs stranded into groups
- 3 Inner covering (halogen-free plastic tape)
- 4 Inner covering (halogen-free glass fabric tape)
- 5 Screen (plastic laminated aluminium tape with drain wire)
- 6 Sheath (halogen-free polymere compound, orange)



**Rated voltage:** max. 225 Vss



**Test voltage:** core/core 500 Veff  
core/screen 2000 Veff



**Temperature range:**  
laying temperature: min. -5 °C  
operating temperature: fixed -30 °C to +70 °C  
in motion -5 °C to +50 °C



**Bending radius (min.):** 7.5 x Ø of wire



**Core identification:** coloured (VDE 0815; BdSi, BdZ)



**Fire properties:**  
halogen-free, no corrosive combustion gases (EN 50267-2-2, IEC 60754-2)  
reduced fire propagation (EN 50266-2-2, IEC 60332-3 Cat. A)  
minimum smoke emission (EN 50268-2, IEC 61034)  
insulation integrity FE180 (IEC 60331, DIN VDE 0472-814)  
functional integrity E30 resp. E90 (DIN VDE 4102-12)



**Test certificate:** VDE Germany

#### Electrical parameters

Conductor diameter	(mm)	0.8
Loop resistance, max.	(Ω/km)	73.2
Insulation resistance, min.	(MΩ.km)	100
Mutual capacitance, max. at 800 Hz (until 4 pairs)	(nF/km)	144
Mutual capacitance, max. at 800 Hz	(nF/km)	120
Capacitance unbalance K <sub>1</sub> , max. at 800 Hz (100 % of values)	(pF/100 m)	400
Capacitance unbalance K <sub>1</sub> , max. at 800 Hz (80 % of values)	(pF/100 m)	200

Number of pairs x nominal diameter (mm)	Outer diameter (mm) ca.	Metal weight (kg/km)	Total weight (kg/km) ca.	Standard lengths/ packing (m)
<b>JE-H(St)H...Bd FE180/E30</b>				
2 x 2 x 0.8	7.5	25	65	500 T, 1000 T
4 x 2 x 0.8	9.5	45	104	500 T, 1000 T
8 x 2 x 0.8	11.5	85	165	500 T, 1000 T

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

Number of pairs x nominal diameter (mm)	Outer diameter (mm) ca.	Metal weight (kg/km)	Total weight (kg/km) ca.	Standard lengths/ packing (m)
<b>JE-H(St)H...Bd FE180/E30</b>				
12 x 2 x 0.8	13.0	126	235	500 T, 1000 T
16 x 2 x 0.8	15.0	166	300	500 T, 1000 T
20 x 2 x 0.8	16.5	206	361	500 T, 1000 T
<b>JE-H(St)H...Bd FE180/E90</b>				
2 x 2 x 0.8	8.5	25	83	500 T, 1000 T
4 x 2 x 0.8	11.5	45	138	500 T, 1000 T
8 x 2 x 0.8	15.0	85	243	500 T, 1000 T
12 x 2 x 0.8	18.5	126	351	500 T, 1000 T
16 x 2 x 0.8	20.5	166	441	500 T, 1000 T
20 x 2 x 0.8	24.0	206	557	500 T, 1000 T

Subject to technical changes.