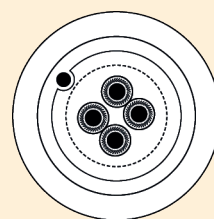
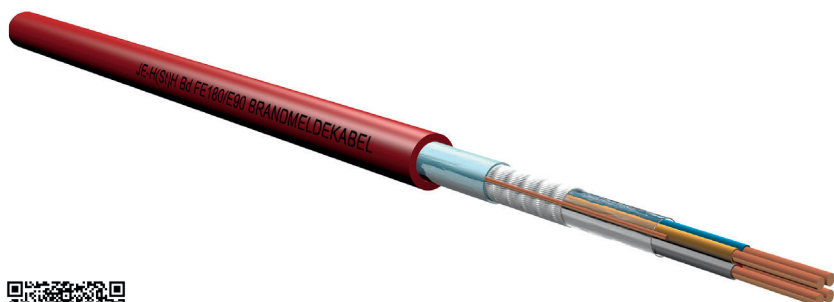


JE-H(St)H Bd FE 180/E90

Fire resistant cable

RoHS

CROSS SECTION



Acc. to DIN VDE 0815

APPLICATION

As an installation cable for telecommunication purposes for fixed laying in fire risk areas where particular protection against fire and fire damage is required for people and property and a system's functional integrity must be maintained for 90 minutes. The cable has an insulation integrity of at least 180 minutes. The functional integrity is guaranteed under a test voltage of 110 V. The cable should be laid within buildings. When using a tube, the cables can also be laid outdoors or underground. During installation, the general test certificates issued by the cable and carrier system manufacturer must be observed.

Also suitable for use as a fire alarm cable with a red outer sheath.

SPECIAL FEATURES

Properties

Flame retardant
Halogen free
Minimal smoke density

Sheath colour

Red, imprinted ('Brandmeldekabel') or orange

STRUCTURE

Conductor

Copper conductor, bare, solid, based on VDE 0815, cores stranded into pairs, 4 pairs stranded into bundles, bundles stranded into layers, bundles labelled using numbers. Insulation integrity under exposure to fire > 180 min. Functional integrity according to DIN 4102

Cores

Halogen-free elastomer compound, according to VDE 0815

Drain wire

Copper drain wire

Shield

Static shield made from plastic-laminated metal foil with copper drain wire

Outer sheath

Halogen-free polymer compound

TECHNICAL DATA

Nominal voltage	225 V
Test voltage	800 V
Loop resistance	73.2 Ohm/km
Insulation resistance	> 100 MOhm x km
Operating capacity	120 nF/km at 800 Hz
Operating temperature	-30°C to +70°C
Max. operating temperature	+70°C
Capacitive coupling	Max. 200pF/100 m at 800 Hz
Min. installation temperature	-5°C
Max. installation temperature	+50°C
Flame retardancy	Test method C acc. to VDE 0472 part 804 and IEC 332-2
Min. bending radius	With fixed installation, 6 x cable diameter
Tests according to DIN VDE 0472 and IEC:	
Smoke density	According to VDE 0472 part 816
Halogen-free nature	Corrosiveness of combustion gases according to VDE 0472 part 813 and IEC 754-1
Fire load/flame retardancy	Test method C according to VDE 0472 part 804 and IEC 332-3
Insul. integ. under exposure to fire	According to VDE 0472 part 814 and IEC 331

Product description				Cu weight	Outer Ø (mm)	Weight (kg/km)	Fire load. (KWh/m)	Product number
JE-H(St)H Bd	2x2x0.8	Orange	FE 180/E 90	25.0	10.7	135	0.28	2090001
JE-H(St)H Bd	4x2x0.8	Orange	FE 180/E 90	45.0	15.0	210	0.39	2090002
JE-H(St)H Bd	8x2x0.8	Orange	FE 180/E 90	85.0	18.0	350	0.58	2090003
JE-H(St)H Bd	12x2x0.8	Orange	FE 180/E 90	126.0	20.0	420	0.86	2090004
JE-H(St)H Bd	16x2x0.8	Orange	FE 180/E 90	166.0	22.5	490	1.08	2090005
JE-H(St)H Bd	20x2x0.8	Orange	FE 180/E 90	206.0	25.0	560	1.17	2090006
JE-H(St)H Bd	32x2x0.8	Orange	FE 180/E 90	327.0	31.0	800	1.78	2090007
JE-H(St)H Bd	40x2x0.8	Orange	FE 180/E 90	407.0	33.0	1000	2.08	2090008
JE-H(St)H Bd	52x2x0.8	Orange	FE 180/E 90	528.0	36.0	1400	2.89	2090009
JE-H(St)H Bd	2x2x0.8	Red	FE 180/E 90	25.0	10.7	135	0.28	2091001
JE-H(St)H Bd	4x2x0.8	Red	FE 180/E 90	45.0	15.0	210	0.39	2091002
JE-H(St)H Bd	8x2x0.8	Red	FE 180/E 90	85.0	18.0	350	0.58	2091003
JE-H(St)H Bd	12x2x0.8	Red	FE 180/E 90	126.0	20.0	420	0.86	2091004
JE-H(St)H Bd	16x2x0.8	Red	FE 180/E 90	166.0	22.5	490	1.08	2091005
JE-H(St)H Bd	20x2x0.8	Red	FE 180/E 90	206.0	25.0	560	1.17	2091006
JE-H(St)H Bd	32x2x0.8	Red	FE 180/E 90	327.0	31.0	800	1.78	2091007
JE-H(St)H Bd	40x2x0.8	Red	FE 180/E 90	407.0	33.0	1000	2.08	2091008
JE-H(St)H Bd	52x2x0.8	Red	FE 180/E 90	528.0	36.0	1400	2.89	2091009