

# Communication cable with circuit integrity

## JE-H(St)H FE180/E30-E90 Fire signalisation cable



**Application:** For signal transmission between electronic devices, in computer systems of process control units in fire hazard rooms with a high concentration of people or material assets and for installation of circuits with circuit integrity E30/E90 according to DIN 4102 part 12, with tested cable systems. For fixed installation in dry and damp areas on certified carrier systems. By the special sheath printing -Brandmeldekabel- this cable is particularly designed for the use in fire signalisation systems.

**Stranding:** cores twisted into pairs, 4 pairs layed up into sub-units (2-pairs cable stranded as one star-quad), sub-units layed up in layers

### Construction and technical data:

<b>Standard:</b>	VDE 0815
<b>Conductor material:</b>	copper, bare
<b>Conductor construction:</b>	Class 1 = solid
<b>Insulation:</b>	FRNC-compound HI1
<b>Screen:</b>	Foil
<b>Drain wire:</b>	yes
<b>Sheathing material:</b>	FRNC-compound HM2
<b>Colour of outer sheath:</b>	red
<b>Flame-retardant:</b>	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
<b>Smoke density:</b>	DIN EN 61034/IEC 61034
<b>Halogen-free:</b>	DIN EN 50267/IEC 60754
<b>Fire-resistant:</b>	FE 180
<b>Circuit integrity:</b>	E30-E90
<b>Permitted outer cable temperature, fixed, °C:</b>	-5 - +50 °C
<b>Bending radius, fixed installation:</b>	7.5 x Ø



*The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.*

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<b>Colour of outer sheath:</b>	red
<b>Maximum operating capacity:</b>	120 nF/km
<b>Core identification:</b>	colours acc. to VDE 0815
<b>peak operating voltage, V:</b>	225 V

part no.	part name	DI [mm]	Ø [mm]	Cu	G [kg]
102102	01X2X0.8	0.8	7.1	15	61
100283	02X2X0.8	0.8	7.4	25	76
100284	04X2X0.8	0.8	11.1	45	130
100285	08X2X0.8	0.8	15.6	85	232
100286	12X2X0.8	0.8	18.1	126	318
100287	16X2X0.8	0.8	19.8	166	430
100288	20X2X0.8	0.8	22.5	206	514
100289	32X2X0.8	0.8	27.7	326	730
100290	40X2X0.8	0.8	30.8	407	962
100291	52X2X0.8	0.8	34.7	529	1200

DI	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000