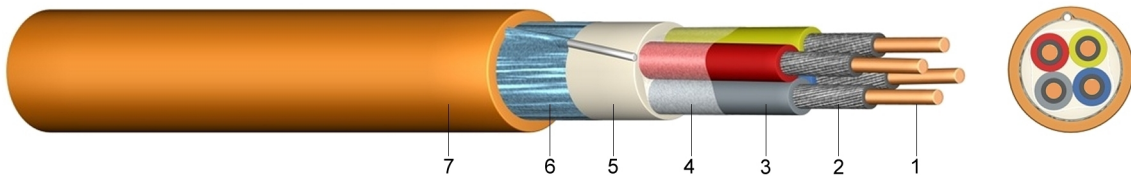


## JE-H(ST)H E90

## Halogen-Free and Flame Retardant Installation Cable for Industrial Electronics with Circuit Integrity of 90 Minutes

### Application:

Suitable for fixed installations in telecommunication. They are to be used in locations with fire hazard and where insulation integrity of at least 180 minutes and circuit integrity of at least 90 minutes are required.



### Construction:

- 1 ..... solid bare copper
- 2 ..... flame protective wrapping (MICA)
- 3 ..... core insulation of halogen-free, cross-linked polymer, Cores twisted to pairs and four twisted pairs in a bundle, bundle identification by Number characteristic helix (Z) or ring mark on core insulation (Si)
- 4 ..... core covering of foil
- 5 ..... halogen-free inner sheath
- 6 ..... static screen of plastic coated metal foil with a solid tinned drain wire 0,8 mm
- 7 ..... outer sheath of halogen-free polymer (HM 2), orange

### Information:

These cables fulfil the conditions of the tests to insulation integrity according to DIN VDE 0472-814/ 8.83 about 180 min. and IEC Public. 331 first edition 1970 to circuit integrity about 30 min. to DIN 4102-12 according to VDE 0100-710 and 0100-718.

### Standards:

DIN VDE 0815 (core identification)  
DIN EN 60228 class 1 (construction)  
DIN VDE 0207-24

### Technical data:

Peak operating voltage		[V]	225
Temperature range	in motion fixed		- 5°C till +50°C -30°C till +70°C
Bending radius	in motion	x diameter	7,5
Flammability	standard		EN 50226-2-4 EN 60332-1 IEC 60332-3 Kat.C
Insulation resistance	min.	[MΩ/km]	100
Mutal capacitance		[Ω/km]	73,2
	max.	[nF/km]	120
Capacitance unbalance 100m	max	[pF]	200

Number of pairs and nominal conductor diameter mm	Copper figure kg/km	Insulation thickness mm	Overall diameter appr.mm	Calorific potential kWh/m	Weight appr. kg/km
2 x 2 x 0,8	24,0	1,0	12,8	0,56	177
4 x 2 x 0,8	43,2	1,0	16,3	0,85	284
8 x 2 x 0,8	81,6	1,2	20,3	1,33	447
12 x 2 x 0,8	121,0	1,2	23,9	1,84	615
16 x 2 x 0,8	159,4	1,4	22,5	2,22	756
20 x 2 x 0,8	197,8	1,4	29,4	2,72	921