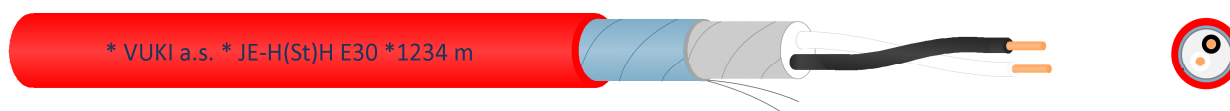




Halogen-free cables for electric fire-alarm signalization, functional for 180 min. in fire, with circuit integrity in fire for duration of 30 min.



### Application:

Signal cables with circuit integrity in fire for the duration of 30 min. according to STN 92 0205 (DIN 4102 Teil 12, ZP- 27/2008), with resistance to flame propagation according to STN EN 60332-3... (STN EN 50266-2-...), halogen-free, with low density of smoke according to STN EN 61034-2 and low corrosivity of combustion gases according to STN EN 50267-2-3. Cables are functional in fire for time period 180 min. according to IEC 60331-23. These are used for fixed installation both in normal and moist environments (STN 33 2000-5-51). Cables can be used in the fire hazard conditions and can be installed on flammable material.

### Cable construction:

- **Number of pairs:** 1 - 20
- **Cable cores:** copper conductor cl. 1
- **Nominal diameter:** 0,8 mm
- **Insulation:** mica-glass tape + cross-linked polyethylene or EPR and combinations
- Cores are stranded in pairs. 4 pairs are stranded in a unit. Units are stranded in layer.
- **Shield construction:** PET tape + AIPET tape with CuSn wire
- **Sheath cable:** halogen-free, flame-retardant material
- **Colour of sheath:** red or other if required

### Technical data:

- **Nominal voltage:** 225 V
- **Test voltage :** 500 V
- **Effective resistance of conductor, max.:** 36,0 Ω/km
- **Insulation resistance, min.:** 100 MΩ.km
- **Mutual capacitance (at 800 Hz), max.:** 120 nF/km\*  
(\* the value can exceed of 20% by cables up to 4-pairs)
- **Max. admissible conductor temperature:** +70 °C
- **Operating temperature:** -40 °C to +70 °C
- **Min. temperature for laying:** -5 °C
- **Min. bending radius:** 15 x cable diameter

### Marking:

- Colour coded acc. to VDE 0815.

Pair	1		2		3		4	
Core	a	b	a	b	a	b	a	b
Colour	blue	red	grey	yellow	green	brown	white	black

Groups are distinguished by identify tape.

Conductor colour in 5-pair cable: a-purple, b-orange

2-pair cable as X-shape:

1 in pair	a-conductor	blue	b-conductor	red
2 in pair	a-conductor	grey	b-conductor	yellow

Number of pairs	Outer diameter (appr.) mm	Weight (appr.) kg/km
1x2x0,8	7	60
2x2x0,8	8,5	90
4x2x0,8	12,5	140
5x2x0,8	13	160
8x2x0,8	18	250
12x2x0,8	19,5	340
16x2x0,8	21	430
20x2x0,8	24	510



The information supplied on this data sheet complies with our current level of knowledge by the date of publication. These information can be revised if there are any new knowledge and experiences available. Stated data are valid only for VUKI products. Any data changes in this documentation are restricted. Values in this documentation consider as informative data.

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