



Halogen-free cables for data transmission



Application:

Cables are suited for signal transmission, 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. 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 - 25
- **Cable cores:** copper conductor cl. 1
- **Nominal diameter:** 0,5 mm ; 0,8 mm
- **Insulation:** cross-linked polyethylene
- Cores are stranded in pairs. Pairs are stranded in layer.
- **Shield construction (only for type JXFE-R):** PET tape + AlPET tape with CuSn wire
- **Sheath cable:** halogen-free, flame-retardant material
- **Colour of sheath:** orange or other if required

Technical data:

- **Nominal voltage:** 100 V
- **Test voltage :** 1000 V
- **Effective resistance of conductor, max.:** 0,5 mm - 97,6 Ω/km
0,8 mm - 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:

- Cores colour in pairs:
A cores colour is for elements:
1-5 white
6-10 yellow
11-15 orange
16-20 purple
21-25 black

B cores colour repeats in every group of 5 elements to differential conductor A in order:
red, green, blue, brown, grey

	1x2x...		2x2x...		3x2x...		5x2x...		10x2x...		15x2x...		20x2x...		25x2x...	
Φ Cu	0,5	0,8	0,5	0,8	0,5	0,8	0,5	0,8	0,5	0,8	0,5	0,8	0,5	0,8	0,5	0,8
Cable diameter (appr.) mm	4,5	5,5	6	6,5	6,5	7	7	10,5	9	12	10,5	14	13	16	15	17,5



