



Halogen-free signal cables



Galvanically isolated pairs/triples

Application:

Signal cables designed to link procedural devices and control equipment with control system or security system, with galvanically isolated pairs or triples. They are 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 nominal voltage of 300 V 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. They are UV stabilized, meet the requirements for use and installation in the free environment with UV light (Africa, Middle East, Latin America).

Cable construction:

- **Number of pairs:** 1 - 12
- **Cable cores:** CuSn conductor cl. 5
- **Nominal cross-section:** 0,75 mm² - 1,5 mm²
- **Insulation:** cross-linked polyethylene
- **Pairs(triples):** galvanically isolated (PET tape + AlPET tape with CuSn wire 0,8 mm + PET tape)
- halogen-free, flame-retarding filler is placed above the coiled pairs(triples)
- **Shield construction:** braiding of CuSn wires of diameter 0,15 mm with a density of min. 85 % with CuSn stranded wire 0,5 mm²
- **Filler:** halogen-free, flame-retardant material
- **Armouring:** braiding of FeZn wires of diameter 0,20 mm with a density of min. 75 %
- **Sheath cable:** halogen-free, flame-retardant material
- **Colour of sheath:** black or other if required, stabilized against UV radiation

Technical data:

- **Nominal voltage U₀/U (V):** 300
- **Test voltage [kV]:** 2,5
- **Operating temperature:** -30 °C to +90 °C
- **Min. temperature for laying:** +5 °C
- **Min. bending radius:** 15 x cable diameter

Marking:

- **Color code:** Acc. to IEC 189-2
- **Letter code:**

position	letter	meaning
1.	L	CuSn conductor cl. 5
2.	X	cross-linked polyethylene
3.	KS	shielded cable
4.	E	filler - halogen-free, flame-retardant material
5.	(FeZn)	armouring
6.	H	halogen-free, flame-retardant material
7.	R	cable is flame-retardant



Application tables:

Type	Outer diameter (appr.)	Total weight (appr.)
	mm	kg/km
LXXKSE(FeZn)H-R 1x2x0,75	11,5	200
LXXKSE(FeZn)H-R 4x2x0,75	17,4	430
LXXKSE(FeZn)H-R 1x2x1	11,8	207
LXXKSE(FeZn)H-R 2x2x1	16,2	330
LXXKSE(FeZn)H-R 6x2x1	22,2	657
LXXKSE(FeZn)H-R 10x2x1	27,8	890
LXXKSE(FeZn)H-R 1x2x1,5	12,8	212