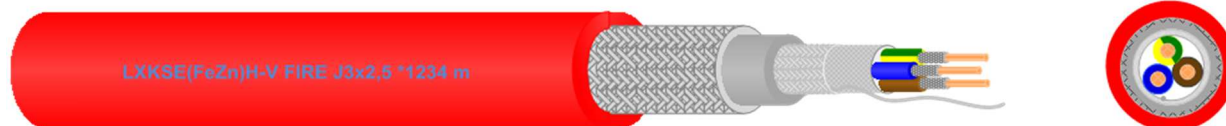


## 5. INDUSTRIAL CABLES / 5.1 HALOGEN-FREE / L XKSE(FeZn)H-V FIRE



Halogen-free 1kV power cables, functional for 180 min. in fire



### Application:

Power cables 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 60331-21. These are used for nominal voltage of 0,6/1 kV 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 cores:** 2 - 12
- **Cable cores:** L - copper conductor cl. 5 (L2 - copper conductor cl. 2)
- **Nominal cross-section:** 1,5 mm<sup>2</sup>, 2,5 mm<sup>2</sup>, 4 mm<sup>2</sup>
- **Insulation:** mica-glass tape + cross-linked polyethylene or EPR and combinations
- halogen-free, flame-retarding filler is placed above the coiled cores
- **Shield construction:** braiding of CuSn wires of diameter 0,15 mm with a density of min. 85 % with CuSn stranded wire 0,5 mm<sup>2</sup>
- **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:** red or other if required, stabilized against UV radiation

### Technical data:

- **Nominal voltage U<sub>0</sub>/U (kV):** 0,6/1
- **Test voltage [kV]:** 2,5
- **Max. short-circuit temperature:** 90 °C
- **Operating temperature:** -30 °C to +90 °C
- **Min. temperature for laying:** +5 °C
- **Min. bending radius:** 15 x cable diameter

### Marking:

- **Core identification:** Acc. to STN EN 60446
- **Letter code:**

position	letter	meaning
1.	L (L2)	copper conductor cl. 5 (L2 - copper conductor cl. 2)
2.	X	mica-glass tape + 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.	V	cable is functionality for 180 min. in fire



Application table:

Type	Outer diameter (appr.)	Total weight (appr.)
	mm	kg/km
LXXKSE(FeZn)H-V FIRE 2x2,5	13,9	295
LXXKSE(FeZn)H-V FIRE 3x2,5	15,0	342
LXXKSE(FeZn)H-V FIRE 4x2,5	16,1	399
LXXKSE(FeZn)H-V FIRE 2x4	16,5	383
LXXKSE(FeZn)H-V FIRE 4x4	18,5	505
LXXKSE(FeZn)H-V FIRE 6x4	22,2	717
LXXKSE(FeZn)H-V FIRE 8x4	23,5	806