



Halogen-free 1kV power cables



### 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. 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:** 1 - 32
- **Cable cores:** L - copper conductor cl. 5 (L2 - copper conductor cl. 2)
- **Nominal cross-section:** 0,75 mm<sup>2</sup> - 10 mm<sup>2</sup>
- **Insulation:** cross-linked polyethylene
- halogen-free, flame-retarding filler is placed above the coiled cores
- **Shield construction:** PET tape + AIPET tape with CuSn wire diameter 0,8 mm
- **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 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	cross-linked polyethylene
3.	K	unshielded cable
	KF	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 table:

Type	Outer diameter (appr.)	Total weight (appr.)
	mm	kg/km
LXKFE(FeZn)H-R 2x0,75	11	140
LXKFE(FeZn)H-R 4x0,75	11,5	175
LXKFE(FeZn)H-R 8x0,75	13,9	255
LXKFE(FeZn)H-R 2x1,0	11	174
LXKFE(FeZn)H-R 6x1,0	14	279
LXKFE(FeZn)H-R 8x1,0	13,4	313
LXKFE(FeZn)H-R 10x1,0	16,3	391
LXKFE(FeZn)H-R 12x1,0	16,5	422
LXKFE(FeZn)H-R 16x1,0	19,3	510
LXKFE(FeZn)H-R 18x1,0	19,5	552
LXKFE(FeZn)H-R 24x1,0	22,1	670
LXKFE(FeZn)H-R 2x1,5	11,7	185
LXKFE(FeZn)H-R 3x1,5	12,0	215
LXKFE(FeZn)H-R 4x1,5	12,7	265
LXKFE(FeZn)H-R 5x1,5	13,7	297
LXKFE(FeZn)H-R 7x1,5	14,9	345
LXKFE(FeZn)H-R 8x1,5	16,3	389
LXKFE(FeZn)H-R 32x1,5	26,4	1050
LXKFE(FeZn)H-R 1x2,5	8,9	130
LXKFE(FeZn)H-R 2x2,5	12,5	235
LXKFE(FeZn)H-R 3x2,5	13,4	268
LXKFE(FeZn)H-R 4x2,5	14,5	315
LXKFE(FeZn)H-R 5x2,5	15,3	360
LXKFE(FeZn)H-R 7x2,5	16,5	425
LXKFE(FeZn)H-R 14x2,5	21,4	720
LXKFE(FeZn)H-R 21x2,5	25,1	980
LXKFE(FeZn)H-R 2x4	15,0	315
LXKFE(FeZn)H-R 3x4	15,9	360
LXKFE(FeZn)H-R 4x4	17,0	440
LXKFE(FeZn)H-R 5x4	19,2	540
LXKFE(FeZn)H-R 1x6	10,7	219
LXKFE(FeZn)H-R 2x6	16,6	412
LXKFE(FeZn)H-R 3x6	17,5	493
LXKFE(FeZn)H-R 4x6	19,3	605
LXKFE(FeZn)H-R 1x10	12,8	308
LXKFE(FeZn)H-R 2x10	18,9	580
LXKFE(FeZn)H-R 3x10	19,5	715
LXKFE(FeZn)H-R 4x10	22,1	820
LXKFE(FeZn)H-R 6x10	25,4	1170
LXKFE(FeZn)H-R 14x10	32,5	2090



Application table:

Type	Outer diameter (appr.) mm	Total weight (appr.) kg/km
L2XKE(FeZn)H-R 2x2,5	12,5	228
L2XKE(FeZn)H-R 3x2,5	13,4	261
L2XKE(FeZn)H-R 4x2,5	14,5	303
LXKE(FeZn)H-R 2x4	15,0	308
LXKE(FeZn)H-R 3x4	15,9	353
LXKE(FeZn)H-R 4x4	17,0	433
LXKE(FeZn)H-R 6x4	19,7	568
LXKE(FeZn)H-R 3x6	17,4	463
LXKE(FeZn)H-R 4x6	19,5	543
LXKE(FeZn)H-R 5x6	21	715
LXKE(FeZn)H-R 3x10	21	593
LXKE(FeZn)H-R 4x10	23	803

