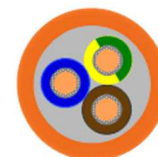
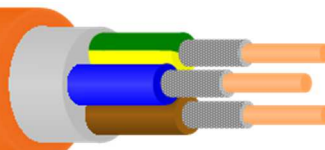




Halogen-free 1kV power cables, functional for 180 min. in fire, with circuit integrity in fire for duration of 60 or 90 min.

* VUKI a.s. * 1-CHKE-V J3x4 E90 *123 m



Application:

Power cables with circuit integrity in fire for duration of 60 or 90 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 60331-21. 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.

Cable construction:

- **Number of cores:** 2 - 19
- **Cable cores:** copper conductor cl. 1
- **Nominal cross-section:** 1 mm², 1,5 mm², 2,5 mm², 4 mm²
- **Insulation:** mica-glass tape + EPR and combinations
- halogen-free, flame-retarding filler is placed above the coiled cores
- **Sheath cable:** halogen-free, flame-retardant material
- **Colour of sheath:** orange or other if required

Technical data:

- **Nominal voltage U₀/U (kV):** 0,6/1
- **Test voltage [kV]:** 4
- **Max. short-circuit temperature:** 90 °C
- **Operating temperature:** -40 °C to +70 °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.	C	copper conductor cl. 1
2.	H	mica-glass tape + EPR and combinations
3.	K	unshielded cable
	F	shielded cable
4.	E	homo- / copolymer ethylene, HFFR
5.	V	cable is flame-retardant with maintaining its functionality at fire
6.	E60,E90	cable with circuit integrity in fire for duration of 60 or 90 min.



Application table:

Number of cores	Nominal cross-section	Effective resistance of conductors	Total weight (appr.)	Outer diameter (appr.)
	mm ²	Ω/km	kg/km	mm
2	1	18,1	130	11
	1,5	12,1	160	11,5
	2,5	7,41	190	12,5
	4	4,61	220	14
3	1	18,1	160	11,5
	1,5	12,1	190	12
	2,5	7,41	235	13
	4	4,61	295	15
4	1	18,1	180	12
	1,5	12,1	225	13
	2,5	7,41	280	14
	4	4,61	360	16
5	1	18,1	200	12,5
	1,5	12,1	260	14
	2,5	7,41	330	15
	4	4,61	410	17
7	1	18,1	260	14
	1,5	12,1	310	15
	2,5	7,41	420	16,5
12	1,5	12,1	480	18,5
	2,5	7,41	630	20,5
19	1,5	12,1	650	23
	2,5	7,41	850	25