



Flat 2 or 3-core halogen-free 1kV power cables



\* VUKI a.s. \* CHKEpl-V-J 3x1,5 \*123m

### Application:

Flat 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.

### Cable construction:

- **Number of cores:** 2 - 3
- **Cable cores:** copper conductor cl. 1
- **Nominal cross-section:** 1,5 mm<sup>2</sup>, 2,5 mm<sup>2</sup>
- **Insulation:** mica-glass tape + EPR and combinations
- **Sheath cable:** halogen-free, flame-retardant material
- **Colour of sheath:** orange or other if required

### Technical data:

- **Nominal voltage U<sub>0</sub>/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	EPR and combinations
3.	K	unshielded cable
4.	pl	Flat installation cable, cores are placed parallel
4.	E	homo- / copolymer ethylene, HFFR
5.	V	cable is flame-retardant with maintaining its functionality at fire



Application table:

Number of cores	Nominal cross-section	Effective resistance of conductors	Total weight (appr.)	Outer dimensions (appr.)
	mm <sup>2</sup>	Ω /km	kg/km	mm
2	1,5	12,1	40	6x3,5
	2,5	7,41	73	6,8x4
3	1,5	12,1	60	8,5x3,5
	2,5	7,41	100	9,8x4