



Halogen-free 1kV power cables, functional for 180 min. in fire, comply with STN EN 50399 for class of reaction on fire B2ca (s1,d1), with circuit integrity in fire for duration of 30, 60 or 90 min.



* VUKI a.s. * 1-CHKE-V J3x1,5 B2ca(s1,d1) PS60 *123 m

Application:

Power cables with circuit integrity in fire for duration of 30, 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 for class of reaction on fire B2ca (s1,d1) according to STN EN 50399 and the 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:** brown

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.	B2ca(s1,d1)	cables comply with STN EN 50399 for class of reaction on fire
7.	PS30, PS60, PS90	cable with circuit integrity in fire for duration of 30, 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