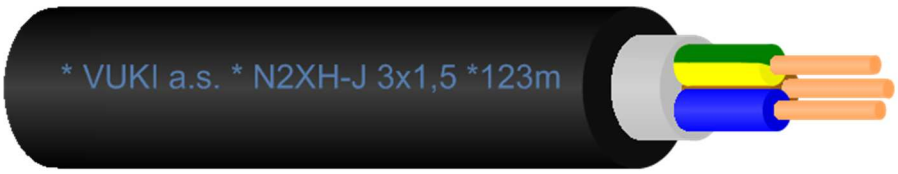
Halogen-free 1kV power cables



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.

Cable construction:

- **Number of cores:** 2 - 24
- **Cable cores:** copper conductor cl. 1 or cl. 2
- **Nominal cross-section:** 1 mm^2, 1,5 mm^2, 2,5 mm^2, 4 mm^2, 6 mm^2, 10 mm^2
- **Insulation:** cross-linked polyethylene
- halogen-free, flame-retarding filler is placed above the coiled cores
- **Sheath cable:** halogen-free, flame-retardant material
- **Colour of sheath:** black

Technical data:

- **Nominal voltage Uo/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.	N	VDE standard
2.	2X	cross-linked polyethylene
3.	H	homo- / copolymer ethylene, HFFR
4.	RE	copper conductor cl. 1
	RM	copper conductor cl. 2

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Aplication 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	80	8,5
	1,5	12,1	90	9
	2,5	7,41	110	10
	4	4,61	150	12
3	1	18,1	100	9
	1,5	12, 1	110	9,5
	2,5	7,41	155	10,5
	4	4,61	190	13
	6	3,08	310	14
	10	1,83	450	16
4	1	18,1	130	10
	1,5	12,1	150	11
	2,5	7,41	210	12
	4	4,61	290	14
	6	3,08	390	15
	10	1,83	570	17
5	1	18,1	150	10,5
	1,5	12, 1	180	11,5
	2,5	7,41	240	12,5
	4	4,61	300	15
	6	3,08	400	16
	10	1,83	650	18
7	1	18,1	150	11,5
	1,5	12,1	220	12,5
	2,5	7,41	350	13,5
	4	4,61	500	17
12	1,5	12,1	400	16
	2,5	7,41	550	18
	4	4,61	700	19,5
19	1,5	12,1	520	20
	2,5	7,41	730	22
24	1,5	12,1	720	23
	2,5	7,41	950	25

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