



Single-core halogen-free 1 kV wires



Application:

Single-core wires of smaller cross-section with resistance to flame propagation according to STN EN 60332-3... (STN EN 50266-2-...), halogen-free, with low density of smoke emitted during a fire according to STN EN 61034-2 and with low corrosivity of gases emitted during a fire according to STN EN 50267-2-3. These are used for nominal voltage of 0,6/1 kV for fixed installation both in ordinary and damp environments (STN 33 2000-5-51). Wires can be used in the fire hazard conditions and can be installed on flammable material.

Cable construction:

- **Number of cores:** 1
- **Cable cores:** copper conductor cl. 1 (RE) or cl. 5 (RM)
- **Nominal cross-section:** 1 mm², 1,5 mm², 2,5 mm², 4 mm², 6 mm², 10 mm², 16 mm², 25 mm²
- **Insulation:** EPR and combinations
- **Colour of insulation:** black, yellow-green, brown, light blue, grey

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:** 8 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.	R	cable is flame-retardant
4.	RE	copper conductor cl. 1
	RM	copper conductor cl. 5



Application table:

Nominal cross-section	Effective resistance of conductors	Nominal insulation thickness	Outer diameter (appr.)
mm ²	Ω/km	mm	mm
1,5 RE	12,1	0,7	3
1,5 RM	13,3	0,7	3,2
2,5 RE	7,41	0,8	3,4
2,5 RM	7,98	0,8	3,8
4 RE	4,61	0,8	4,2
4 RM	4,95	0,8	4,6
6 RE	3,08	0,8	4,6
6 RM	3,3	0,8	5,0
10 RE	1,83	1	5,8
10 RM	1,91	1	6,3
16 RE	1,15	1	6,7
16 RM	1,21	1	7,2
25 RM	0,78	1,2	10,4