



Halogen-free cables for electric fire-alarm signalization, acc. to STN EN 50399 for class of reaction on fire B2ca (s1,d1,a1).



Application:

Signal cables are suited for signal transmission, 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,a1) according to STN EN 50399. These are used 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. Cables type -V are functional in fire for time period 180 min. according to IEC 60331-23.

Cable construction:

- **Number of pairs:** 1 - 5
- **Cable cores:** Solid or stranded Cu cores 0,5 - 1,0 mm
- **Conductor insulation:** special EPR and combinations (-V type in combination with mica-glass tape)
- Conductors are coiled to pairs.
- **Shield construction:** K - unshielded cable
F (or St) - ALPET foil + enclosed CuSn wire
O - Cu braiding with min. covering 75 %
S - CuSn braiding with min. covering 75 %
J - longitudinal ALPET foil + CuSn braiding with min. covering 45 %
- **Sheath:** halogen-free, flame-retardant material
- **Sheath colour:** -R types - orange, -V types - red

Technical data:

- **Nominal voltage:** 225 V
- **Test voltage :** 500 V
- **Insulation resistance, min.:** 100 MΩ.km
- **Mutual capacitance (at 800 Hz), max.:** 120 nF/km*
(* the value can exceed of 20% by cables up to 4-pairs)
- **Max. admissible conductor temperature:** +70 °C
- **Operating temperature:** -40 °C to +70 °C
- **Min. temperature for laying:** -5 °C
- **Min. bending radius:** conductors cl. 1 - 15 x cable diameter,
conductors cl. 2 or cl. 5 - 12 x cable diameter

Letter code:

Core identification:	acc. EN 60446		
position	letter	meaning	
1.	J [alebo JE]	copper conductor cl. 1, cl. 2 or cl. 5	
	L	copper conductor cl. 1	
	C	copper conductor cl. 2 or cl.5	
2.	H	HFFR	
3.	K	unshielded cable	
	F, St, O, S, J	shielded cable	
4.	E [or H]	halogen-free, flame-retardant material	
5.	R	cable is flame-retardant	
	V	cable is flame-retardant with maintaining its functionality at fire	
6.	B2ca(s1,d1,a1)	acc. to STN EN 50399 for class of reaction on fire	



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VUKI a.s., Rybníčná 38, SK - 831 07 Bratislava, Tel.: +421 2 4488 9906, Fax: +421 2 4488 2927
e-mail: vuki@vuki.sk, www.vuki.sk



Marking:

- Colour coded for type JE-H(St)H... acc. to VDE 0815.

Pair	1		2		3		4	
Core	a	b	a	b	a	b	a	b
Colour	blue	red	grey	yellow	green	brown	white	black

Groups are distinguished by identify tape.

Conductor colour in 5-pair cable: a-purple, b-orange

2-pair cable as X-shape:

1 in pair	a-conductor	blue	b-conductor	red
2 in pair	a-conductor	grey	b-conductor	yellow

- Colour coded in pairs for type J(C,L)X

A cores colour is for	1-5 white
elements:	6-10 yellow
	11-15 orange
	16-20 purple
	21-25 black

B cores colour repeats in every group of 5 elements to differential conductor A in order:

red, green, blue, brown, grey



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