

HSLCH (Cross section 0.5mm²-1.5mm²)

CU/HF/PST/BCU/HFPO



Halogen-free signal cable with concentric protective Cu conductor, with improved properties under fire

Construction

Conductor:	Bare copper conductor, fine wired, stranded in layers, class 5 acc. to IEC 60228 / DIN VDE 0295
Insulation:	halogen-free polyolefin polymer, concentrically stranded cores
Separator:	Polyester foil
Concentric conductor:	Braid of tinned copper wires, overlap >65%
Sheath:	Halogen-free polyolefin Compound ST8 Acc to IEC60502-1
Sheath colour:	Light grey (for inst. RAL 7001 or RAL 7035)
Core colour marking:	Acc. to VDE 0293-308

Application

Halogen-free signal cable with improved properties under fire, suitable for different applications in control and measuring circuits, in industry and facilities where human lives or valuable property need to be protected against damages caused by fire. Suitable for fixed, same as for mobile installation, but free of mechanical stress; for dry and damp environment, not for outdoor application. Resistant to majority of most frequently used oils.

- advantages:
- halogen-free, no release of toxic or corrosive gases under fire
 - reduced smoke occurrence under fire
 - no flame propagation in vertical cable bundle

Technical data

Temperature during installation:	-5 °C up to +50 °C
Fixed installed Temperature:	-20 °C up to +70 °C
Max. operating temperature:	70 °C
At short circuit of max. 5 s:	up to 150 °C
Nominal voltage:	U /U = 300/500 V
Test voltage:	2000 V
Minimal inner bending radius:	
Fixed installation:	4D
Mobile installation:	15D
Flame retardant:	IEC 60332-1
No flame propagation in vertical cable bundle:	IEC 60332-3
Halogen-free:	IEC 60754-1
Non-corrosive combustion gases:	IEC 60754-2
Low smoke density:	IEC 61034-2

Design Standards

IEC 60502-1
VDE 0276-603

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Cable code	number of cores x conductor cross-section	Construction of individual conductor	External diameter	Conductor resistance at 20 °C	Cable weight	Packing*
	N x mm ²	nominal n x mm	approx. mm	max. /km	approx. kg/km	
Cross section :0.5mm²						
625	2 x 0,5	16 x 0,20	5.8	39,00	50	CUT
635	3 x 0,5	16 x 0,20	6.2	39,00	60	CUT
645	4 x 0,5	16 x 0,20	6.7	39,00	65	CUT
655	5 x 0,5	16 x 0,20	7.1	39,00	85	CUT
675	7 x 0,5	16 x 0,20	8.9	39,00	110	CUT
6125	12 x 0,5	16 x 0,20	10	39,00	165	CUT
6185	18 x 0,5	16 x 0,20	11.9	39,00	230	CUT
61255	25 x 0,5	16 x 0,20	13.2	39,00	320	CUT
Cross section :0.75mm²						
61275	2 x 0,75	24 x 0,20	6.5	26,00	60	CUT
61375	3 x 0,75	24 x 0,20	6.8	26,00	75	CUT
61475	4 x 0,75	24 x 0,20	8.1	26,00	85	CUT
61575	5 x 0,75	24 x 0,20	8.9	26,00	105	CUT
61775	7 x 0,75	24 x 0,20	9.6	26,00	130	CUT
611275	12 x 0,75	24 x 0,20	11.5	26,00	210	CUT
Cross section :1.0mm²						
61210	2 x 1,0	32 x 0,20	6.7	19,50	65	CUT
61310	3 x 1,0	32 x 0,20	7.1	19,50	85	CUT
61410	4 x 1,0	32 x 0,20	7.4	19,50	100	CUT
61510	5 x 1,0	32 x 0,20	8.6	19,50	120	CUT
61710	7 x 1,0	32 x 0,20	9.8	19,50	165	CUT
611210	12 x 1,0	32 x 0,20	11.9	19,50	250	CUT
611810	18 x 1,0	32 x 0,20	19.2	19,50	375	CUT
612510	25 x 1,0	32 x 0,20	16.8	19,50	510	CUT
Cross section :1.5mm²						
61315	3 x 1,5	30 x 0,25	7.8	13,30	120	CUT
61415	4 x 1,5	30 x 0,25	8.1	13,30	130	CUT
61515	5 x 1,5	30 x 0,25	8.6	13,30	185	CUT
61715	7 x 1,5	30 x 0,25	11.8	13,30	235	CUT
611215	12 x 1,5	30 x 0,25	13.2	13,30	360	CUT
611815	18 x 1,5	30 x 0,25	15.8	13,30	510	CUT
612515	25 x 1,5	30 x 0,25	19.2	13,30	690	CUT

HSLCH(Cross section 2.5mm²-10mm²)

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Cross section :2.5mm ²						
61225	2 x 2,5	50 x 0,25	8.6	7,98	135	CUT
61325	3 x 2,5	50 x 0,25	9.8	7,98	165	CUT
61425	4 x 2,5	50 x 0,25	10.1	7,98	195	CUT
Cross section :4mm ²						
6124	2 x 4	56 x 0,30	10.8	4,95	210	CUT
6134	3 x 4	56 x 0,30	10.9	4,95	250	CUT
6144	4 x 4	56 x 0,30	12.1	4,95	290	CUT
6174	7 x 4	56 x 0,30	15.4	4,95	490	CUT
Cross section :6mm ²						
6126	2 x 6	84 x 0,30	11.8	3,30	280	CUT
6136	3 x 6	84 x 0,30	12.9	3,30	345	CUT
6146	4 x 6	84 x 0,30	14.8	3,30	400	CUT
6176	7 x 6	84 x 0,30	19.8	3,30	685	CUT
Cross section :10mm ²						
61210	2 x 10	80 x 0,40	15.1	1,91	450	CUT
61310	3 x 10	80 x 0,40	15.8	1,91	500	CUT
61410	4 x 10	80 x 0,40	17.9	1,91	700	CUT
61510	5 x 10	80 x 0,40	19.8	1,91	825	CUT
61710	7 x 10	80 x 0,40	21.8	1,91	1260	CUT