


LP/LIMHCH

EMC cable with low-pass behavior

EMC cable

- Halogen-free low-pass cable 0.6/1 kV
- Conductor: Tinned copper, flexible according to IEC 60228 class 5 (VDE 0295 class 5)
- Coating: EMC/COM extruded
- Halogen-free insulation type HI2 in accordance with VDE 0207, Part 23



Minimum order quantity 50 m 
other lengths on request.

Overview

The LP/LIMHCH cable is a halogen-free low-pass cable. The EMC/COM coating gives the cable low-pass properties.

This means that the cable allows low frequencies to pass (DC voltage, AC voltage, wired communication frequencies) and blocks high frequencies (e.g. radio interference frequencies).

The attenuation is proportional to the length and increases exponentially to the frequency.

Key facts

- Range of application: The cable is suitable for use in all climatic areas, taking into account the material properties according to § 6 and § 7.
- Oil resistance according to HD 604 S1 (=VDE 0298 Part 4)
- Ozone resistance according to IEC 60811-403
- Acid resistance according to NF F 55-623
- Alkali resistance according to NF F 55-623
- UV resistance according to EN 50289-4-17
- Stress cracking resistance according to IEC 60811-406
- Water resistance according to HD 603, Table 2C, Column 6 (= VDE 0276 Part 603)



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Technical data

LP/LIMHCH		Electrical features	
Structure		Electrical features	
Conductor	tinned copper, class 5 according to IEC 60228 (=VDE 0295)	Conductor resistance	according to IEC 60228 class 5 (=VDE 0295 class 5)
EMC coating	EMC/COM extruded	Voltage test	core/core and core/screen, 4 kV(ac)/ 5' or 9.6 kV(dc)/5' according to IEC0502-1.
Insulation	halogen-free insulation type HI2 according to VDE 0207, part 23 Marking: cores numbered black	Low-pass properties	
Stranding	cores stranded in concentric layers	Frequency (MHZ)	attenuation (dB/10 m)
Shielding	Cu braid tin plated	10	10
Outer sheath	halogen-free material type HM4 according to VDE 0207 part 24, color: black or gray	20	12
Winding	at least 1 layer of plastic tape overlapping	50	40
		100	>100
Smallest permissible bending radius	6 x D (D= outer-∅ of the cable)	Inductance of a conductor loop	~ 3 mH/km
Operating temperature	max. on conductor: HI2 insulation: 70 °C	Fire behavior	
Permitted min. temp:	during installation: -15 °C during operation: -25 °C	Smoke density	IEC 61034-2 (= DIN EN 50568-2) > 50%
		Corrosiveness of smoke gases	IEC 60754-2 (= DIN EN 50267-2-2)
		Fire propagation	IEC 60332-3-24 cat.C and IEC 60332-3-22 cat. A

Technical data II

Type Conductor/ screen	Insulation wall thickness	Core diameter	Shielding cross section	Shielding ∅ ± 1 under / over	Outer sheath ∅ ± 1	Weight
4 x 4 / 10 mm ²	0.8 mm	4.9 +/- 0.20 mm	10 mm ²	12.0 / 13.2 mm	16.0 mm	415 kg/km
7 x 4 / 10 mm ²	0.8 mm	4.9 +/- 0.20 mm	10 mm ²	14.9 / 16.1 mm	20.0 mm	665 kg/km

All information regarding appearance and technical data correspond to the current state of development at the time of release of this data sheet. We reserve the right to make technical changes. 272311

