

LP/LIMHCH-OZ

EMC motor cable with low-pass behavior

EMC mains connection cable

- Halogen-free low-pass cable 0.6/1 kV
- Ferrite coating: EMC/COM
- HI2 Insulation: 4 x 6 mm²

Minimum order quantity 50 m
other lengths on request.



Overview

The LP/LiMHCH-OZ cable is a halogen-free low-pass cable. The EMC/COM ferrite 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 60811-3-1
- Acid resistance according to NF F 55-623
- Alkali resistance according to NF F 55-623
- UV resistance according to CNET CM 23
- Stress cracking resistance according to IEC 60811-4-1
- Water resistance according to HD 603, Table 2C, Column 6 (= VDE 0276 Part 603)



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Technical data

LP/LIMHCH-OZ			
Conductor	Tinned copper, class 5 according to IEC 60228 (=VDE 0295)	Electrical test	(S) = routine test
Ferrite coating	EMC/COM extruded	Conductor resistance (S)	according to IEC 60228 class 5 (=VDE 0295 class 5)
Insulation	Halogen-free insulation type HI2 according to VDE 0207, part 23 Alternative VPE according to VDE 0276 part Marking: cores numbered black	Voltage test (S)	Core/wire and core/screen, 4 kV(ac)/ 5' or 9.6 kV(dc)/5' according to IEC0502-1.
Shielding	Cu braid tin plated	Low-pass properties	
Outer sheath	Halogen-free material type HM4 according to VDE 0207 part 24, color: black	Frequency (MHZ)	Attenuation (dB/10 m)
Winding	At least 1 layer of plastic tape overlapping	10	10
Stranding	Cores stranded in concentric layers	20	12
Smallest permissible bending radius	6D (D= outer Ø of the cable)	50	40
Operating temperature	Max. on conductor: HI2 Insulation: 70 °C VPE Insulation: 90 °C Min. temp: during installation: -15 °C during operation: -25 °C	100	>100
		Inductance of a conductor loop	~ 3 mH/km
		Fire behavior	
		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	Insulation Wall thickness	Core diameter	Shielding cross section	Shielding Ø ± 1 Under / Over	Outer sheath Ø ± 1	Weight
HI2 Insulation 4 x 6.0 mm²	80 mm	5.5 +/- 0.20 mm	10 mm ²	13.4 / 14.7 mm	1.750 mm	530 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. 202212

