

SHIPFLEX® 121 cable for drag chain, halogen-free, EMC preferred type, meter marking



HELUKABEL SHIPFLEX 121

CE



Technical data

- Special screened drag chain cable
- UL-Style 20234
- **Temperature range**
flexing -40°C to +80°C
fixed installation -40°C to +80°C
- **Installation temperature**
min. -25°C
- **Nominal voltage**
to VDE U₀/U 0,6/1 kV
UL 1000 V
- **Insulation resistance**
min. 200 MΩm x km
- **Minimum bending radius**
7,5x cable Ø
- **Coupling resistance**
max. 250 Ωm/km
- **Radiation resistance**
up to 100x10⁶ cJ/kg (up to 100 Mrad)

Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.6, extra fine-wire, BS 6360 cl.6, IEC 60228 cl.6
- Special core insulation
- Black power supply cores with imprint U1, V2, W3
- GN-YE conductor, depends of the diameter of the conductor
- Black control cores with white numbers 5,6 and 7,8
- Screening of the control cores in pairs wrapped with plastic aluminium foil, and tinned copper braided screening, coverage approx. 85%
- Control cores stranded in pairs and laid up in layers together with the power supply cores with optimal lay length and stabilising filler
- Core wrapping between the layers of stranding
- Braided screening of tinned copper wires, coverage approx. 85 %
- **Full polyurethane** outer sheath to UL std. 1581 Tab. 50227
- Sheath colour orange (RAL 2003)
- with meter marking

Properties

- Flame retardant to DIN VDE 0482-332-1-2, DIN EN 60332-1-2/IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Halogen-free to DIN VDE 0482 part 267/ DIN EN 50267-2-1/IEC 60754-1 (equivalent DIN VDE 0472 part 815)
- Oil resistant to IEC 60092-350, appendix F
- Behaviour at low temperature at -40°C to IEC 60092-350, appendix E
- Weather, ozon and UV-resistant
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Application

HELUKABEL® SHIPFLEX® 121 is a new developed and successfully tested screened special drag chain cable which meets the requirements of the strict standards for application in offshore-areas. This kind of cable combines the feeding cores with the control cores. For this two - line standard there is a **Lloyds Register approval**. The outer sheath insulation of non-adhesive Polyurethan allows the application in extremely oily and rough environmental conditions. For applications which go beyond standard solutions we recommend that you fill out our especially developed questionnaire for drag chains. Before installation in cable drag chains please read the installation instructions.

EMC = Electromagnetic compatibility

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

CE = The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
19836	(4 G 1 + 2 x (2 x 0,75))	12,5	148,0	254,0	-
19837	(4 G 1,5 + 2 x (2 x 0,75))	13,0	170,0	290,0	-
19838	(4 G 2,5 + 2 x (2 x 1,0))	15,0	229,0	336,0	-
19839	(4 G 4 + (2 x 1,5) + (2 x 1,0))	17,0	318,0	485,0	-
19840	(4 G 6 + (2 x 1,5) + (2 x 1,0))	18,5	445,0	615,0	-

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
19841	(4 G 10 + (2 x 1,5) + (2 x 1,0))	22,0	610,0	915,0	-
19842	(4 G 16 + 2 x (2 x 1,5))	25,0	904,0	1226,0	-
19843	(4 G 25 + 2 x (2 x 1,5))	29,0	1323,0	1595,0	-
19844	(4 G 35 + 2 x (2 x 1,5))	33,0	1621,0	2196,0	-
19845	(4 G 50 + 2 x (2 x 1,5))	37,0	2585,0	2995,0	-

Dimensions and specifications may be changed without prior notice. (RW01)