

SHIPFLEX® 109 cable for drag chain, halogen-free, EMC preferred type, meter marking



HELUKABEL SHIPFLEX 109

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 cores imprinted with U1, V2, W3
- GN-YE conductor depends on
conductor cross-section may cut into thirds
- Cores stranded together with optimal
lay-length
- 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

Note

- AWG sizes are approximate equivalent
values. The actual cross-section is in mm².

Application

HELUKABEL® SHIPFLEX® 109 is a new developed and successfully tested special drag chain cable with overall screening which meets the requirements of the strict standards for application in offshore-areas. For this two-line standard there is a **Lloyds Register approval**. The outer sheath insulation of non-adhesive Polyurethane 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	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
19810	4 G 1	18	9,0	84,0	124,0
19811	4 G 1,5	16	10,5	105,0	175,0
19812	4 G 2,5	14	11,7	157,0	265,0
19813	4 G 4	12	13,4	231,0	390,0
19814	4 G 6	10	15,6	332,0	570,0
19815	4 G 10	8	19,2	527,0	804,0
19816	4 G 16	6	23,9	794,0	1450,0

Part no.	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
19817	4 G 25	4	27,6	1180,0	1660,0
19818	4 G 35	2	32,7	1600,0	2400,0
19819	4 G 50	1	37,0	2165,0	2600,0
19820	4 G 70	2/0	43,0	3196,0	4600,0
19969	3 G 95	3/0	41,0	3090,0	4480,0
19821	4 G 95	3/0	48,0	4606,0	5350,0

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