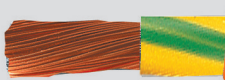
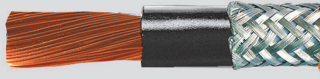


SHIPFLEX® 109 cable for drag chain, halogen-free, EMC preferred type (-C-Type) , meter marking



HELUKABEL SHIPFLEX 109 single



HELUKABEL SHIPFLEX 109-C single



Technical data

- Special 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. 100 MOhm x km
- **Minimum bending radius**
7,5x cable Ø
- **Coupling resistance**
(for -C-type)
max. 250 Ohm/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
- Colour black or green-yellow
- Screened type with braided screen 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 Single is a new developed and successfully tested special drag chain cable 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 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.

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

SHIPFLEX® 109 unscreened

Part no.	No. cores x cross-sec. mm ²	AWG-No.	Core colour	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
21388	1 x 6	10	black	6,9	58,0	108,0
21374	1 G 6	10	Green-yellow	6,9	58,0	108,0
21389	1 x 10	8	black	8,3	96,0	170,0
21375	1 G 10	8	Green-yellow	8,3	96,0	170,0
21390	1 x 16	6	black	9,5	154,0	240,0
21376	1 G 16	6	Green-yellow	9,5	154,0	240,0
21391	1 x 25	4	black	11,3	240,0	370,0
21377	1 G 25	4	Green-yellow	11,3	240,0	370,0
21392	1 x 35	2	black	12,7	336,0	490,0
21378	1 G 35	2	Green-yellow	12,7	336,0	490,0
21393	1 x 50	1	black	15,0	480,0	665,0
21379	1 G 50	1	Green-yellow	15,0	480,0	665,0
21394	1 x 70	2/0	black	16,3	672,0	910,0
21380	1 G 70	2/0	Green-yellow	16,3	672,0	910,0
21395	1 x 95	3/0	black	18,8	912,0	1190,0
21381	1 G 95	3/0	Green-yellow	18,8	912,0	1190,0
21396	1 x 120	4/0	black	20,9	1152,0	1530,0
21382	1 G 120	4/0	Green-yellow	20,9	1152,0	1530,0
21397	1 x 150	300 kcmil	black	23,2	1440,0	1720,0
21383	1 G 150	300 kcmil	Green-yellow	23,2	1440,0	1720,0
21398	1 x 185	350 kcmil	black	25,7	1776,0	2280,0
21384	1 G 185	350 kcmil	Green-yellow	25,7	1776,0	2280,0
21399	1 x 240	500 kcmil	black	28,2	2304,0	2895,0
21404	1 G 240	500 kcmil	Green-yellow	28,2	2304,0	2895,0

SHIPFLEX® 109 screened

Part no.	No. cores x cross-sec. mm ²	AWG-No.	Core colour	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
19798	1 x 6	10	black	7,6	72,0	140,0
21330	1 G 6	10	Green-yellow	7,6	72,0	140,0
19799	1 x 10	8	black	9,1	130,0	225,0
21331	1 G 10	8	Green-yellow	9,1	130,0	225,0
19800	1 x 16	6	black	10,2	190,0	295,0
21332	1 G 16	6	Green-yellow	10,2	190,0	295,0
19801	1 x 25	4	black	12,1	260,0	415,0
21333	1 G 25	4	Green-yellow	12,1	260,0	415,0
19802	1 x 35	2	black	13,5	405,0	610,0
21334	1 G 35	2	Green-yellow	13,5	405,0	610,0
19803	1 x 50	1	black	15,9	560,0	817,0
21335	1 G 50	1	Green-yellow	15,9	560,0	817,0
19804	1 x 70	2/0	black	17,3	780,0	1065,0
21336	1 G 70	2/0	Green-yellow	17,3	780,0	1065,0
19805	1 x 95	3/0	black	19,5	1030,0	1340,0
21337	1 G 95	3/0	Green-yellow	19,5	1030,0	1340,0
19806	1 x 120	4/0	black	21,8	1285,0	1735,0
21338	1 G 120	4/0	Green-yellow	21,8	1285,0	1735,0
19807	1 x 150	300 kcmil	black	24,1	1430,0	1910,0
21339	1 G 150	300 kcmil	Green-yellow	24,1	1430,0	1910,0
19808	1 x 185	350 kcmil	black	26,5	1940,0	2610,0
21406	1 G 185	350 kcmil	Green-yellow	26,5	1940,0	2610,0
19809	1 x 240	500 kcmil	black	29,2	2530,0	3274,0
21410	1 G 240	500 kcmil	Green-yellow	29,2	2530,0	3274,0

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