

# SHIPFLEX® 340 cable for drag chain, halogen-free, EMC preferred

type, meter marking



HELUKABEL SHIPFLEX 340

CE



## Technical data

- Special screened drag chain cable, stranded in pairs
- UL-Style 20233
- **Temperature range**  
flexing -40°C to +80°C  
fixed installation -40°C to +80°C
- **Installation temperature**  
min. -25°C
- **Nominal voltage**  
VDE U<sub>0</sub>/U 300/500 V  
UL 300 V
- **Insulation resistance**  
min. 100 MOhm x km
- **Minimum bending radius**  
7,5x cable Ø
- **Coupling resistance**  
max. 250 Ohm/km
- **Radiation resistance**  
up to 100x10<sup>6</sup> 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 coreinsulation
- Colour coded to DIN 47100
- Cores stranded in pairs, pairs stranded torsion-free in layers with optimal lay-length
- Core wrapping between the layers of stranding
- Braided screen of tinned copper wires, coverage approx. 85 %, optional aluminium foil under the screen
- **Full polyurethane** outer sheath to UL std. 1581 Tab. 50227
- Sheath colour grey (RAL 7001)
- 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 mm<sup>2</sup>.

## Application

HELUKABEL® SHIPFLEX® 340 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 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.pairs x no.cores x cross-sec. mm <sup>2</sup> | AWG-No. | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km |
|----------|--------------------------------------------------|---------|-----------------|---------------------|---------------------|
| 19927    | 2 x 2 x 0,25                                     | 24      | 6,8             | 32,0                | 60,0                |
| 19928    | 3 x 2 x 0,25                                     | 24      | 7,1             | 38,0                | 70,0                |
| 19929    | 4 x 2 x 0,25                                     | 24      | 7,5             | 43,0                | 82,0                |
| 19930    | 5 x 2 x 0,25                                     | 24      | 8,0             | 51,0                | 99,0                |
| 19931    | 6 x 2 x 0,25                                     | 24      | 8,5             | 72,0                | 126,0               |
| 19932    | 7 x 2 x 0,25                                     | 24      | 9,2             | 75,0                | 135,0               |
| 19933    | 12 x 2 x 0,25                                    | 24      | 11,4            | 117,0               | 189,0               |
| 19934    | 18 x 2 x 0,25                                    | 24      | 13,5            | 148,0               | 248,0               |
| 19935    | 25 x 2 x 0,25                                    | 24      | 15,0            | 233,0               | 343,0               |
| 19936    | 2 x 2 x 0,34                                     | 22      | 7,4             | 41,0                | 81,0                |
| 19937    | 3 x 2 x 0,34                                     | 22      | 7,7             | 52,0                | 100,0               |
| 19938    | 4 x 2 x 0,34                                     | 22      | 8,4             | 59,0                | 119,0               |
| 19939    | 5 x 2 x 0,34                                     | 22      | 9,1             | 67,0                | 135,0               |
| 19940    | 6 x 2 x 0,34                                     | 22      | 10,0            | 86,0                | 163,0               |
| 19941    | 7 x 2 x 0,34                                     | 22      | 10,5            | 94,0                | 170,0               |
| 19942    | 12 x 2 x 0,34                                    | 22      | 12,2            | 122,0               | 220,0               |
| 19943    | 18 x 2 x 0,34                                    | 22      | 14,4            | 197,0               | 277,0               |
| 19944    | 25 x 2 x 0,34                                    | 22      | 16,5            | 238,0               | 400,0               |
| 19945    | 2 x 2 x 0,5                                      | 20      | 8,0             | 53,0                | 100,0               |
| 19946    | 3 x 2 x 0,5                                      | 20      | 8,4             | 73,0                | 131,0               |
| 19947    | 4 x 2 x 0,5                                      | 20      | 9,0             | 77,0                | 149,0               |

| Part no. | No.pairs x no.cores x cross-sec. mm <sup>2</sup> | AWG-No. | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km |
|----------|--------------------------------------------------|---------|-----------------|---------------------|---------------------|
| 19948    | 5 x 2 x 0,5                                      | 20      | 9,7             | 86,0                | 160,0               |
| 19949    | 6 x 2 x 0,5                                      | 20      | 10,6            | 103,0               | 170,0               |
| 19950    | 7 x 2 x 0,5                                      | 20      | 11,5            | 117,0               | 191,0               |
| 19951    | 12 x 2 x 0,5                                     | 20      | 13,5            | 199,0               | 361,0               |
| 19952    | 18 x 2 x 0,5                                     | 20      | 15,7            | 265,0               | 427,0               |
| 19953    | 25 x 2 x 0,5                                     | 20      | 18,2            | 344,0               | 740,0               |
| 19954    | 2 x 2 x 0,75                                     | 19      | 9,0             | 61,0                | 102,0               |
| 19955    | 3 x 2 x 0,75                                     | 19      | 9,5             | 87,0                | 144,0               |
| 19956    | 4 x 2 x 0,75                                     | 19      | 10,3            | 95,0                | 160,0               |
| 19957    | 5 x 2 x 0,75                                     | 19      | 11,2            | 115,0               | 193,0               |
| 19958    | 6 x 2 x 0,75                                     | 19      | 12,1            | 137,0               | 218,0               |
| 19959    | 7 x 2 x 0,75                                     | 19      | 13,0            | 153,0               | 298,0               |
| 19960    | 12 x 2 x 0,75                                    | 19      | 16,0            | 261,0               | 406,0               |
| 19961    | 18 x 2 x 0,75                                    | 19      | 18,0            | 374,0               | 519,0               |
| 19962    | 2 x 2 x 1                                        | 18      | 10,0            | 73,0                | 120,0               |
| 19963    | 3 x 2 x 1                                        | 18      | 10,4            | 94,0                | 161,0               |
| 19964    | 4 x 2 x 1                                        | 18      | 11,8            | 118,0               | 184,0               |
| 19965    | 5 x 2 x 1                                        | 18      | 12,6            | 139,0               | 217,0               |
| 19966    | 6 x 2 x 1                                        | 18      | 13,6            | 188,0               | 295,0               |
| 19967    | 7 x 2 x 1                                        | 18      | 14,8            | 204,0               | 311,0               |
| 19968    | 12 x 2 x 1                                       | 18      | 18,0            | 324,0               | 602,0               |

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