

# CLEANFLEX®-HF Power Cable

For drag chain applications in clean rooms



HELUKABEL CLEANFLEX®-HF 4x0.75 QMM E 170315 RU AWM STYLE 20233 80°C 300V 19AWG 4C VW1 cRU AWM I/III A/B

RoHS

## Technical Data

- Special cable for drag chain applications in clean rooms
- **Temperature range**  
flexing: -20°C up to +80°C  
fixed: -40°C up to +80°C
- **Nominal voltage**  
U<sub>0</sub>/U 300/500 V
- **Test voltage**  
core/core 1500 V
- **Insulation resistance**  
min. 100 MΩ x km
- **Minimum bending radius**  
flexing: 7.5 x cable Ø  
fixed: 4.0 x cable Ø
- **Radiation Resistance**  
up to 100x10<sup>6</sup> cJ/kg  
(up to 100Mrad)

## Approbations

- UL-Style 20233
- IPA

## Cable Construction

- Bare copper, extra fine wire conductors to DIN VDE 0295 cl. 6, column 5 and IEC 60228 cl. 6, column 5
- Core insulation TPE
- Core identification:  
black numbered cores + green/yellow according to DIN VDE 0293
- Cores stranded in torsion-free layers with optimal lay-length
- Outer sheath full polyurethane TPU according to DIN VDE 0281 part 10, annex A and according to UL standard 1581 Tab. 50227 80°C
- Colour of outer sheath: black, dull, RAL 9004

## Properties

- Flame retardant according to VDE 0482-332-1-2, DIN EN 60332-1-2 / IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Oil resistance according to IEC 60092-350
- Halogen free
- Weather, ozone and UV resistant
- Chemical resistance to solvents, acids, alkalis and hydraulic fluids
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of laquers

## Advantages

- Very high resistance to mechanical stresses
- Very good alternating bending strength
- High tear, abrasion and impact resistance, even at low temperatures

CE = the product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Part No.	No. pairs x cross section mm <sup>2</sup>	Outer Ø ca. mm	Copper weight kg / km	Part No.	No. pairs x cross section mm <sup>2</sup>	Outer Ø ca. mm	Copper weight kg / km
708301	2 x 0.5	4.5	9.6	709168	2 x 1.5		
709163	3 G 0.5			709169	3 G 1.5		
708302	4 G 0.5	5.5	20.74	708406	4 G 1.5	7.0	57.6
709164	5 G 0.5			709170	5 G 1.5		
708303	7 G 0.5	6.6	36.29	709171	7 G 1.5		
709165	2 x 0.75			709172	2 x 2.5		
709166	3 G 0.75			709173	3 G 2.5		
708304	4 G 0.75	6.1	28.2	708308	4 G 2.5	8.6	96.0
709167	5 G 0.75			709174	5 G 2.5		
708405	7 G 0.75	8.1	50.4	709175	7 G 2.5		

Dimensions and specifications may be changed without prior notice.