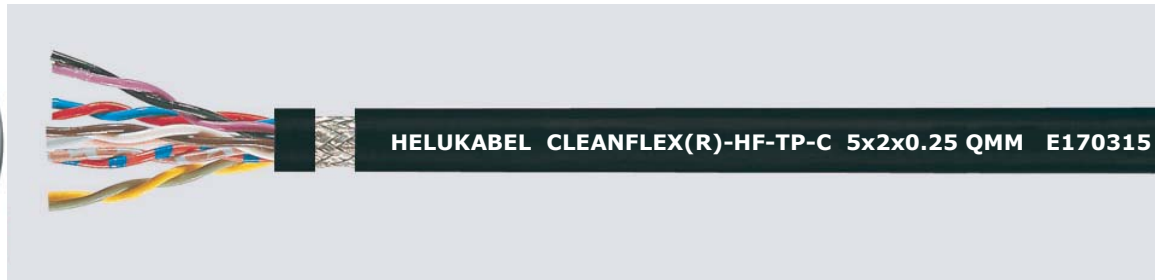


HELUKABEL CLEANFLEX®-HF-TP-C

twisted pairs, screened cable for drag chain applications in clean rooms



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**
U₀/U 300/500 V
- **Test voltage**
core/core 1500 V
core/screen 1000 V
- **Insulation resistance**
min. 100 MΩm x km
- **Minimum bending radius**
flexing 7.5 x cable Ø
fixed 4.0 x cable Ø
- **Radiation Resistance**
up to 100x10⁶ 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-E
- Cores colour coded according to DIN 47100
- Cores stranded into pairs
- Pairs stranded in torsion-free layers with optimal lay-length
- Wrapping with polyester-fleece-tape
- Screened with tinned copper wire braiding, tinned copper drain wire
- Wrapping with fleece-tape over the screen
- 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
- Printing:
HELUKABEL CLEANFLEX®-HF-TP-C 8x2x0.25 QMM E 170315 RU
AWM STYLE 20233 24AWG 16C
VW1 cRU AWM I/II A/B 80°C 300V
FT1 / 708313 production order No.
CE RoHS continuous meter marking

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

EMC = Electromagnetic Compatibility - To optimise the EMC characteristics we recommend a large area of contact of the copper braiding around the entire circumference on both ends

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 ²	outer Ø ca. mm	Copper weight kg / km	Part No.	No.pairs x cross section mm ²	outer Ø ca. mm	Copper weight kg / km
708309	2 x 2 x 0.25	6.0	24.0	708313	8 x 2 x 0.25	9.2	67.9
708310	3 x 2 x 0.25	6.4	28.8	708414	10 x 2 x 0.25	10.4	79.5
708311	4 x 2 x 0.25	7.1	35.0	708415	12 x 2 x 0.25	10.7	92.4
708312	5 x 2 x 0.25	7.9	42.4				

