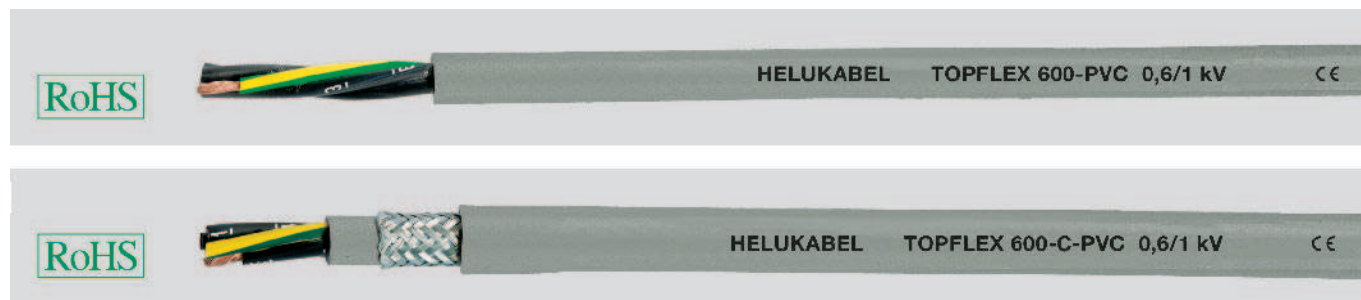


TOPFLEX® 600-PVC, 600-C-PVC for power supply connections 0,6/1kV, EMC-preferred type (-C-PVC)



Technical data

TOPFLEX® 600-PVC

- Special PVC-insulated sheathed cable
 - Based on DIN VDE 0293, 0295, 0472 part 804
 - **Temperature range**
flexing -5°C to +80°C
fixed installation -40°C to +80°C
 - **Nominal voltage** U₀/U 600/1000 V
 - **Test voltage** 4000 V
 - **Insulation resistance**
min. 20 MΩm x km
 - **Minimum bending radius**
flexing approx. 7,5x cable Ø
fixed installation approx. 4x cable Ø
 - **Radiation resistance**
up to 80x10⁶ cJ/kg (to 80 Mrad)
- ### TOPFLEX® 600-C-PVC
- **Minimum bending radius**
flexing approx. 10x cable Ø
fixed installation approx. 5x cable Ø
 - **Coupling resistance**
max. 250 Ωm/km

Cable construction

TOPFLEX® 600-PVC

- Finely stranded, plain Cu wire conductor according to VDE 0295 cl. 5 and IEC 60228 cl. 5
- PVC core insulation
- Cores black with sequential numbering imprinted in white, according to DIN VDE 0293
- Earth core green-yellow
- Cores stranded in layers with optimal lay-length
- Special-PVC-insulated outer jacket
- Colour grey (RAL 7001)

TOPFLEX® 600-C-PVC

- Structure as TOPFLEX® 600-PVC, except for Oil resistant PVC inner sheath
- Screening of finely stranded Cu braiding Approx. 90% screening density/coverage
- Outer jacket as described above

Properties

- PVC outer jacket: extensively oil resistant
Chemical Resistance - see table Technical Informations
- Flame retardant and self-extinguishing, test method B according to DIN VDE 0472 part 804 and IEC 60332-1
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- Applications as described above with additional compliance with electromagnetic compatibility (EMC compatibility) requirements on account of the 90% coverage by the braided screening

Note

- For use in drag chains, we recommend our versions TOPFLEX® 611-PUR and TOPFLEX® 611-C-PUR.

Application

TOPFLEX® 600-PVC

As supply cable for electronically controlled servo-motors and connections to DNC motors. The cable is suitable for permanent and flexible installation for medium mechanical loads in dry, damp and wet environments.

TOPFLEX® 600-C-PVC

In particular to be recommended as supply cable between frequency converter and servo-motor.

EMC = Electromagnetic compatibility

To optimise 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 73/23/EEC and 93/68/EEC.

TOPFLEX® 600-PVC

| Part No. | No. cores x cross-sec. mm² | Outer ø ca. mm | Cop. weight kg / km | Weight ca. kg / km | AWG-No. |
|----------|----------------------------|----------------|---------------------|--------------------|---------|
| 22860 | 4 G 1,5 | 9,9 | 58,0 | 130,0 | 16 |
| 22861 | 4 G 2,5 | 11,1 | 95,0 | 220,0 | 14 |
| 22862 | 4 G 4 | 13,8 | 154,0 | 330,0 | 12 |
| 22863 | 4 G 6 | 15,6 | 231,0 | 445,0 | 10 |
| 22864 | 4 G 10 | 18,4 | 384,0 | 660,0 | 8 |
| 22865 | 4 G 16 | 21,2 | 615,0 | 1060,0 | 6 |
| 22866 | 4 G 25 | 26,9 | 960,0 | 1805,0 | 4 |
| 22867 | 4 G 35 | 29,4 | 1344,0 | 2060,0 | 2 |
| 22868 | 4 G 50 | 34,2 | 1920,0 | 2900,0 | 1 |
| 22869 | 4 G 70 | 41,0 | 2640,0 | 4050,0 | 2/0 |
| 22854 | 4 G 95 | 46,2 | 3648,0 | 5540,0 | 3/0 |
| 22855 | 4 G 120 | 50,2 | 4608,0 | 7000,0 | 4/0 |

TOPFLEX® 600-C-PVC

| Part No. | No. cores x cross-sec. mm² | Outer ø ca. mm | Cop. weight kg / km | Weight ca. kg / km | AWG-No. |
|----------|----------------------------|----------------|---------------------|--------------------|---------|
| 22960 | 4 G 1,5 | 12,2 | 130,0 | 250,0 | 16 |
| 22961 | 4 G 2,5 | 13,4 | 180,0 | 360,0 | 14 |
| 22962 | 4 G 4 | 16,7 | 255,0 | 530,0 | 12 |
| 22963 | 4 G 6 | 18,7 | 341,0 | 620,0 | 10 |
| 22964 | 4 G 10 | 21,9 | 577,0 | 1050,0 | 8 |
| 22965 | 4 G 16 | 26,4 | 840,0 | 1465,0 | 6 |
| 22966 | 4 G 25 | 32,5 | 1215,0 | 1920,0 | 4 |
| 22967 | 4 G 35 | 35,7 | 1620,0 | 2515,0 | 2 |
| 22856 | 4 G 50 | 41,1 | 2220,0 | 3315,0 | 1 |
| 22857 | 4 G 70 | 48,3 | 3090,0 | 4600,0 | 2/0 |
| 22858 | 4 G 95 | 51,4 | 4060,0 | 6060,0 | 3/0 |
| 22859 | 4 G 120 | 56,0 | 5299,0 | 7315,0 | 4/0 |

Dimensions and specifications may be changed without prior notice.