

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 MOhm 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 Ohm/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 cooper 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. mm ²	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. mm ²	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.