

# TOPFLEX® 611-PUR / TOPFLEX® 611-C-PUR

Motor power supply cable 0,6/1kV for drag chain applications, halogen-free



## Technical data

### TOPFLEX® 611-PUR

- Special-PUR drag chain cable Based on DIN VDE 0293, 0295, 0250, 0281
- **Temperature range**  
flexing -30°C to +80°C  
fixed installation -50°C to +90°C
- **Nominal voltage**  $U_0/U$  600/1000 V
- **Test voltage** 4000 V
- **Insulation resistance**  
min. 20 MΩm x km
- **Min. bending radius**  
approx. 7,5x cable Ø

### TOPFLEX® 611-C-PUR

- **Min. bending radius**  
approx. 10x cable Ø
- **Coupling resistance**  
max. 250 Ohm/km

## Cable construction

### TOPFLEX® 611-PUR

- Bare copper, ultra-fine wire conductors acc. to DIN VDE 0295 cl. 6, BS 6360 cl. 6 and/or IEC 60228 cl. 6
- TPE-E-core insulation
- Cores black with sequential numbering imprinted in white, according to DIN VDE 0293
- Green-yellow earth core
- Cores stranded together with optimal lay-length and stabilising filler
- Fleece wrapping facilitates sliding
- PUR-insulated outer jacket
- Sheath colour grey (RAL 7001)

### TOPFLEX® 611-C-PUR

- structure as TOPFLEX® 611-PUR except after the first layer of fleece tape
- TPE-inner sheath
- Optimum screening of Cu braiding approx. 90% coverage
- PUR-insulated outer jacket
- Sheath colour grey (RAL 7001)

## Properties

- Adhesion-free, extremely abrasion resistant, halogen-free, flame retardant, resistant to hydrolysis and microbial attack
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Note

- For extreme applications extending beyond standard solutions we recommend that you request our questionnaire, which has been especially designed for energy supply systems.
- Please observe applicable installation regulations for use in energy supply chains.

## Application

### TOPFLEX® 611-PUR

As optimized supply cable for the supply to motors, in particular to DNC motors, servo-motors. These cables are specially designed for use in power drag chains, handling equipment, robotics, tooling machinery, processing and manufacturing machinery. Optimised insulation materials ensure resistance to oils (including mineral oils), greases, coolants, hydraulic fluids as well as many alkalis and solvents. Favourable outer diameters, reduced weights and enhanced torsion characteristics assure the use in multi-layer operations with extremely high continuous bending loads. Suitable for outdoor use.

### TOPFLEX® 611-C-PUR

Applications as described above with additional compliance with electromagnetic compatibility (**EMC compatibility**) requirements on account of the 90% coverage by the braided screening. Particularly recommended as a supply cable between frequency converters and servomotors.

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® 611-PUR

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
22870	4 G 1,5	10,5	125,0	125,0	16
22871	4 G 2,5	12,8	215,0	215,0	14
22872	4 G 4	15,0	310,0	310,0	12
22873	4 G 6	16,0	470,0	470,0	10
22874	4 G 10	19,2	760,0	760,0	8
22875	4 G 16	22,3	1250,0	1250,0	6
22876	4 G 25	27,5	1510,0	1510,0	4
22877	4 G 35	33,3	2100,0	2100,0	2
22978	4 G 50	35,8	2950,0	2950,0	1
22979	4 G 70	40,9	4090,0	4090,0	2/0
22980	4 G 95	51,8	5580,0	5580,0	3/0
22981	4 G 120	60,5	7040,0	7040,0	4/0

### TOPFLEX® 611-C-PUR (EMVC-Vorzugstyp)

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
22970	4 G 1,5	11,5	106,0	220,0	16
22971	4 G 2,5	13,1	164,0	340,0	14
22972	4 G 4	15,5	245,0	490,0	12
22973	4 G 6	16,8	338,0	680,0	10
22974	4 G 10	20,8	530,0	1035,0	8
22975	4 G 16	24,0	800,0	1460,0	6
22976	4 G 25	29,0	1250,0	1990,0	4
22977	4 G 35	34,0	1653,0	2535,0	2
22982	4 G 50	42,8	2280,0	3360,0	1
22983	4 G 70	52,5	3120,0	4650,0	2/0
22984	4 G 95	58,0	4090,0	6090,0	3/0
22985	4 G 120	69,0	5340,0	7380,0	4/0

Dimensions and specifications may be changed without prior notice.