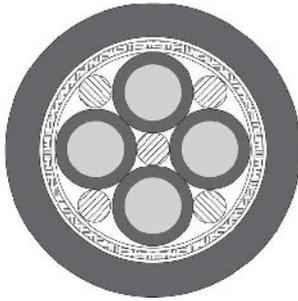


# TOPSERV® 100 / 101 halogen-free, PUR, VDE-Reg. No., high flexible drag chain motor supply cable, 0,6/1kV, EMC-preferred type



## Technical data

### TOPSERV®100 (unscreened)

- Special PUR drag chain cable
- Based on DIN VDE 0293, 0295, 0250, 0281
- **Temperature range**  
flexing -40°C to +80°C  
fixed installation -50°C to +90°C
- **Nominal voltage** U<sub>0</sub>/U 600/1000 V
- **A.c. test voltage**, 50 Hz  
4000 V
- **Insulation resistance**  
min. 20 MOhm x km
- **Minimum bending radius**  
approx. 5x cable diameters

### TOPSERV® 101 (screened)

- Tech. data as per TOPSERV® 100, but
- Minimum bending radius  
approx. 7,5x cable diameters
- **Coupling resistance**  
max. 250 Ohm/km

## Cable construction

### TOPSERV® 100 (unscreened)

- Bare copper, ultra-fine wire to  
DIN VDE 0295 cl. 6 and/or IEC 60228 cl. 6
- TPE-E core insulation, halogen-free
- Black cores with sequential numbering  
imprinted in white, to DIN VDE 0293
- Green-yellow earth core
- Cores stranded together with optimal  
lay-length and stabilising filler
- Fleece wrapping facilitates sliding
- PUR outer sheath
- Sheath colour orange (RAL 2003)

### TOPSERV® 101 (screened)

- Construction as per TOPSERV® 100 up to  
fleece wrapping
- Tinned copper braided screening, coverage  
approx. 85%
- PUR outer sheath
- Sheath colour orange (RAL 2003) according  
to DESINA®

## Properties

- Low adhesion, flame retardant, extremely  
abrasion resistant, halogen-free, resistant  
to UV, oil, hydrolysis and microbial attack  
PUR sheath
- PUR sheath: self-extinguishing and flame  
retardant, test method B acc. to  
DIN VDE 0472 part 804 and IEC 60332-1
- Optimized insulation materials ensure  
resistance to oils (including mineral oils),  
greases, coolants, hydraulic fluids as well  
as many alkalis and solvents.

### TOPSERV® 101 (screened)

- Applications as described above,  
additionally optimal compliance with  
electromagnetic compatibility (EMC)  
requirements on account of the approx.  
85% coverage by the braided screening
- Special feature: These cables are produced  
to high quality specifications and conform  
to the DESINA® standard

## 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.
- Desina®: Explanation: see introduction.

## Application

### TOPSERV® 100 (unscreened)

Supply cable optimised especially for the supply of DNC motors. These cables are specially designed for use in power drag chains, handling equipment, robotics, tooling machinery, processing and manufacturing machinery. The optimised outside diameter, reduced weight and excellent torsion characteristics facilitate use in multi-shift operation with extreme alternating bending stress cycles.

### TOPSERV® 101 (screened)

Particularly recommended as a supply cable between frequency converters and servomotors.

**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.

### TOPSERV® 100 (unscreened) sheath orange

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.
74422	4 x 1,5	9,5	58,0	134,0	16
74423	4 x 2,5	10,9	96,0	206,0	14
74424	4 x 4	12,5	154,0	283,0	12
74425	4 x 6	14,5	231,0	408,0	10
74426	4 x 10	18,1	384,0	643,0	8
74427	4 x 16	22,4	615,0	945,0	6
74428	4 x 25	26,4	960,0	1368,0	4
74429	4 x 35	31,2	1344,0	1819,0	2
74430	4 x 50	35,8	1920,0	2515,0	1
700434	4 x 70	41,5	2688,0	4090,0	2/0

### TOPSERV® 101 (screened) sheath orange, DESINA®

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.
74408	4 x 1,5	10,0	105,0	140,0	16
74409	4 x 2,5	11,7	158,0	215,0	14
74410	4 x 4	12,8	232,0	295,0	12
74411	4 x 6	15,0	333,0	425,0	10
74412	4 x 10	18,0	527,0	670,0	8
74413	4 x 16	22,0	794,0	985,0	6
74414	4 x 25	27,5	1180,0	1425,0	4
74415	4 x 35	32,0	1603,0	1895,0	2
74416	4 x 50	36,7	2165,0	2620,0	1
700435	4 x 70	42,5	3120,0	4650,0	2/0

Dimensions and specifications may be changed without prior notice.