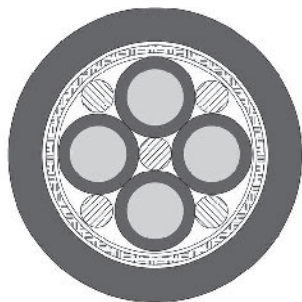


TOPSERV® 100 / 101 halogen-free, PUR, VDE-Reg. No., high flexible drag chain motor supply cable, 0,6/1kV, EMC-preferred type



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_0/U 600/1000 V
- **A.c. test voltage**, 50 Hz
4000 V
- **Insulation resistance**
min. 20 MΩm 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 Ωm/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. mm²	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. mm²	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.