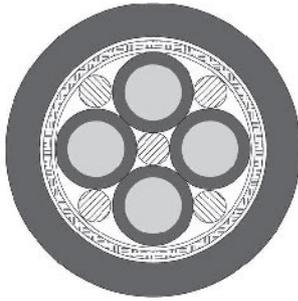


TOPSERV® 150 / 151 PUR, high flexible drag chain

0,6/1kV, low capacitance, halogen-free, EMC-preferred type



Technical data

TOPSERV® 151

- Special PUR drag chain cable
- Based on DIN VDE 0293, 0295, 0250, 0281
- **Temperature range**
flexing -20°C to +80°C
fixed installation -40°C to +80°C
- **Nominal voltage** U_0/U 600/1000 V
- **A.c. test voltage**, 50 Hz
4000 V
- **Mutual capacitance**
core/core approx. 70 nF/km
core/screen approx. 110 nF/km
- **Insulation resistance**
min. 20 MOhm x km
- **Minimum bending radius**
approx. 7,5x cable diameters
- **Coupling resistance**
max. 250 Ohm/km

TOPSERV® 150

- Special PUR drag chain cable acc. to UL AWM Style 20235 and CSA AWM
- **Nominal voltage**
acc. to UL/CSA 1000 V
acc. to VDE U_0/U 600/1000 V

Cable construction

- Bare copper, ultra-fine wire acc. to DIN VDE 0295 cl. 6 or IEC 60228 cl. 6
- Polypropylene core insulation, halogen-free
- Black cores with sequential numbering imprinted in white, acc. to DIN VDE 0293
- Green-yellow earth core
- Cores stranded together with optimal lay-length and stabilising filler
- Fleece wrapping facilitates sliding
- Tinned copper braided screening, coverage approx. 85%
- Fleece wrapping facilitates sliding
- PUR outer sheath
- Sheath colour orange (RAL 2003) according to DESINA®

Part No. 79514

- Construction as above, except
- Core colours bk, bn, bu, gnye
- Inner sheath PVC

Properties

- PUR outer sheath: low adhesion, flame retardant, extremely abrasion resistant, halogen-free, resistant to UV, oil, hydrolysis and microbial attack
- PUR sheath self-extinguishing and flame retardant, test method B acc. to 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
- Optimum compliance with requirements for electromagnetic compatibility (EMC) by approx. 85% coverage from the braided screen
- These cables are produced to high quality specifications and conform to the DESINA® standard.
- The use of polypropylene for core insulation means that thanks to the reduction in cable-related losses these low capacitance motor cables can have longer cable lengths between the converter and the motor than with comparable cables with PVC insulation

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

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.

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® 150 with UL/CSA- approval

Part No.	No. cores x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
79526	4 x 1,5	10,2	105,0	140,0	16
79514	4 x 1,5	10,5	105,0	140,0	16
79527	4 x 2,5	11,4	158,0	215,0	14
79528	4 x 4	13,1	232,0	295,0	12
79529	4 x 6	15,1	333,0	425,0	10
79530	4 x 10	18,8	527,0	670,0	8
79531	4 x 16	24,0	794,0	985,0	6
79532	4 x 25	27,5	1180,0	1425,0	4
79533	4 x 35	32,0	1603,0	1895,0	2
79534	4 x 50	36,7	2165,0	2620,0	1
700444	4 x 70	42,5	3196,0	4090,0	2/0

TOPSERV® 151 without UL/CSA-approval

Part No.	No. cores x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
79517	4 x 1,5	10,2	105,0	140,0	16
79518	4 x 2,5	11,4	158,0	215,0	14
79519	4 x 4	13,1	232,0	295,0	12
79520	4 x 6	15,1	333,0	425,0	10
79521	4 x 10	18,8	527,0	670,0	8
79522	4 x 16	24,0	794,0	985,0	6
79523	4 x 25	27,5	1180,0	1425,0	4
79524	4 x 35	32,0	1603,0	1895,0	2
79525	4 x 50	36,7	2165,0	2620,0	1
700445	4 x 70	42,5	3120,0	4090,0	2/0

Dimensions and specifications may be changed without prior notice.