

# TOPSERV® 150 PUR, high flexible drag chain 0,6/1kV, low capacitance, halogen-free, EMC-preferred type, meter marking



## Technical data

- Special PUR drag chain cable acc. to UL AWM Style 20234 and CSA AWM
- **Temperature range**  
flexing -20°C to +80°C  
fixed installation -40°C to +80°C
- **Nominal voltage**  
acc. to UL/CSA 1000 V  
acc. to VDE U<sub>0</sub>/U 600/1000 V
- **Nominal voltage** U<sub>0</sub>/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 MΩm x km
- **Minimum bending radius**  
flexing ca. 7,5x cable Ø  
fixed installation ca. 4x cable Ø
- **Coupling resistance**  
max. 250 Ωm/km

## Cable structure

- 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®
  - with meter marking, change-over in 2009
- 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 according to VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- 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 materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- 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 2006/95/EG.

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.	Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
79526	4 G 1,5	10,2	105,0	140,0	16	79531	4 G 16	24,0	794,0	985,0	6
79514	4 G 1,5	10,5	97,0	140,0	16	79532	4 G 25	27,5	1180,0	1425,0	4
79527	4 G 2,5	11,4	158,0	215,0	14	79533	4 G 35	32,0	1603,0	1895,0	2
79528	4 G 4	13,1	252,0	295,0	12	79534	4 G 50	36,7	2165,0	2620,0	1
79529	4 G 6	15,0	273,8	425,0	10	700444	4 G 70	42,5	3196,0	4090,0	2/0
79530	4 G 10	18,8	527,0	670,0	8						

Dimensions and specifications may be changed without prior notice. (RN07)