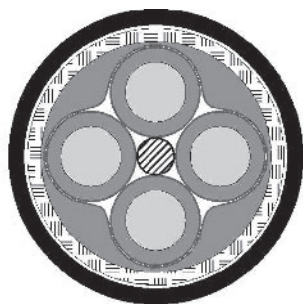


# TOPSERV® 103 PUR, halogen-free, high flexible drag chain motor supply cable, EMC-preferred type 0,6/1kV



## Technical data

- Special PUR drag chain cable acc. to UL AWM Style 20235 CSA AWM
- **Temperature range**  
flexing -40°C to +80°C  
fixed installation -50°C to +80°C
- **Nominal voltage**  
acc. to UL/CSA 1000 V  
acc. to VDE 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. 7,5x cable diameters
- **Coupling resistance**  
max. 250 Ohm/km

## Cable construction

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

## 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 inner sheath filler holds the stranded elements together in a compact unit. This prevents the individual cores from working their way free and forming a "corkscrew". The inner sheath improves the torsion characteristics of the cable, resulting in significantly longer service life

## 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.

Part No.	No. cores x cross-sec. mm²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
79704	4 x 1,5	12,2	95,0	240,0	16
79705	4 x 2,5	13,4	150,0	310,0	14
79706	4 x 4	15,0	235,0	495,0	12
79707	4 x 6	17,1	320,0	640,0	10
79708	4 x 10	20,8	533,0	870,0	8

Part No.	No. cores x cross-sec. mm²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
78989	4 x 16	26,0	794,0	1300,0	6
79709	4 x 25	29,5	1236,0	1900,0	4
79710	4 x 35	34,0	1662,0	2650,0	2
79711	4 x 50	38,7	2345,0	3050,0	1
700447	4 x 70	44,5	3090,0	4600,0	2/0

Dimensions and specifications may be changed without prior notice.