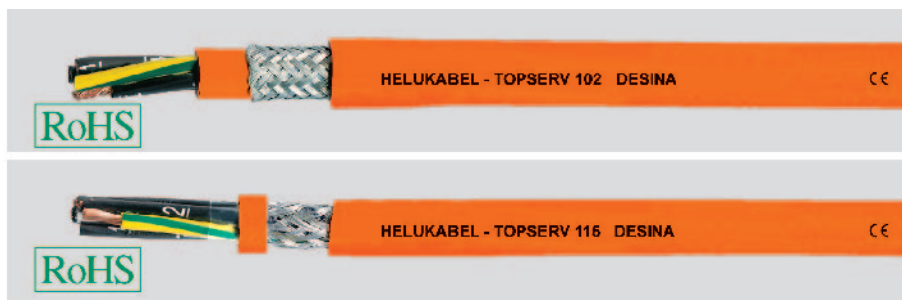
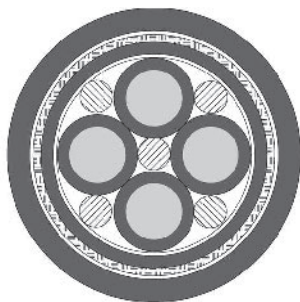


# TOPSERV® 102 / 115

PVC, flexible motor supply cable, 0,6/1kV, EMC-preferred type



## Technical data

- Special PVC servo cable adapted to DIN VDE 0281, 0245, 0250
- **Temperature range**  
flexing -5°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
- **Insulation resistance**  
min. 20 MΩm x km
- **Minimum bending radius**  
flexing 20x cable Ø  
fixed installation 6x cable Ø
- **Coupling resistance**  
max. 250 Ωm/km

## Cable construction

### TOPSERV 102®

- Bare copper, fine wire conductors acc. to DIN VDE 0295 cl. 5 and IEC 60228 cl. 5
- Special-PVC core insulation
- Black cores with sequential numbering imprinted in white, acc. to DIN VDE 0293
- Green-yellow earth core
- Cores stranded together with optimal lay-length
- Inner sheath PVC
- Tinned copper braided screening, coverage approx. 85%
- Special-PVC outer sheath
- Sheath colour orange (RAL 2003) according to DESINA®

### TOPSERV 115®

- Structure as per TOPSERV® 102, but
- without PVC inner sheath

## Properties

- Extensively oil resistant.  
Chemical Resistance - see table Technical Informations
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- 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.

## Note

- For applications with continuous movement, such as in energy supply chains, we recommend that you use our highly-flexible motor supply cables TOPSERV® 100 and TOPSERV® 101.
- Desina®: Explanation: see introduction.

## Application

Used as supply cables for electronically controlled servomotors, frequency converters and for connection to DNC motors. These cables are suitable for flexible and fixed installation subjected to medium mechanical stresses in dry, moist and wet rooms. 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® 102 with inner sheath

Part No.	No. cores x cross-sec. mm²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
74395	4 x 1,5	13,0	133,0	265,0	16
74396	4 x 2,5	15,5	190,0	375,0	14
74397	4 x 4	17,8	252,0	500,0	12
74398	4 x 6	19,0	356,0	620,0	10
74399	4 x 10	25,0	530,0	1035,0	8
74400	4 x 16	27,7	796,0	1345,0	6
74401	4 x 25	33,0	1165,0	2000,0	4
74402	4 x 35	36,8	1714,0	2645,0	2
74403	4 x 50	43,0	2397,0	3850,0	1

### TOPSERV® 115 without inner sheath

Part No.	No. cores x cross-sec. mm²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
76315	4 x 1,5	11,0	131,0	150,0	16
76316	4 x 2,5	13,0	187,0	230,0	14
76317	4 x 4	15,3	247,0	315,0	12
76318	4 x 6	16,4	349,0	450,0	10
76319	4 x 10	22,7	520,0	710,0	8
76320	4 x 16	25,0	780,0	1040,0	6
76321	4 x 25	30,0	1142,0	1500,0	4
76322	4 x 35	33,6	1683,0	1995,0	2
76323	4 x 50	40,0	2349,0	2755,0	1

Dimensions and specifications may be changed without prior notice.