



Servo cables for extrem torsion applications MOTIONLINE® PREMIUM

### STANDARDS

**Product** UL and CSA approval

Motor cables for extrem torsion applications; PUR jacket, TPM insulation, screened, resistant to oils and coolants, notch resistant, flame retardant, resistant to hydrolysis and microbes, PVC- and halogen-free.

**Reference:** 49280161

### CONTACT

Market information  
[industryprojects.business@lynxgroup.com](mailto:industryprojects.business@lynxgroup.com)



Halogen free  
Yes



Operating temp.  
-30 ... 80 °C



Storage temperature, range  
-40 ... 80 °C



Flame retardant  
IEC 60332-1-2; UL 1581 FT1



Oil resistance  
DIN EN 50363-10-2 & DIN EN 60811-404

## CHARACTERISTICS

### Construction characteristics

Conductor material	Bending-resistant conductor with bare copper wires
Insulation	TPM with very low capacitance
Lay Up	power cores and pair stranded with fillers and wrapped
Construction type	(4x1,0+2x(2x0,75)StC)D
Screen	Tinned copper spiral, coverage ≥ 90%
Outer sheath	PUR
Sheath colour	Orange RAL 2003
Halogen free	Yes

### Dimensional characteristics

Outer Diameter	12.5 mm
Copper content	138 kg/km
Approximate weight	212 kg/km

### Electrical characteristics

Rated Voltage U <sub>o</sub> /U	0.6/1 kV
Test voltage	4000 V

### Mechanical characteristics

<b>Torsion test max. +/- 4 turns for 10 meters</b>	180°/m
Bending cycles	5 Mio.
Speed	180° / s

### Usage characteristics

Field of application	Dynamic
Operating temperature, range	-30 ... 80 °C
Storage temperature, range	-40 ... 80 °C
Flame retardant	IEC 60332-1-2; UL 1581 FT1
Oil resistance	DIN EN 50363-10-2 & DIN EN 60811-404