

For extremely dynamic application MOTIONLINE® PREMIUM

### STANDARDS

**Product** UL and CSA approval

Hybrid cables for servo motors for extremely dynamic applications; PUR Jacket; screened, resistant to oils and coolants, notch resistant, flame retardant, resistant to hydrolysis and microbes, PVC- and halogen-free.

### DESIGN

**Conductor**

Bare copper

**Core insulation**

Polyolefine

**Core stranding**

Power cores & control pairs stranded with fillers

**Core identification**

DSL: Blue - White

Signal: Black num.

5 + Black num. 6

Power: Black num.

1-3 + Y/G

Screen

Overall screen:

Tinned copper braid,

coverage ≥ 85%

**Signal screen:**

Tinned copper braid,

coverage ≥85%

Jacket

PUR

Colour: Orange

(similar RAL 2003)



### CONTACT

Market information  
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Halogen free  
**Yes**



Operating temp.  
 -30 ... 80 °C



Storage temperature, range  
 -50 ... 80 °C



Oil resistance  
 EN 50363-10-2



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

**CHARACTERISTICS****Construction characteristics**

Construction type	(4G0.5+(2x0.35)C+(2xAWG26)C)
Conductor material	Bare copper
Insulation	Polypropylene
Insulation colour	DSL: Blue-White; Signal: Black num. 5 + Black num. 6; Power: Black num. 1-3 + Y/G
Lay Up	power cores and control pairs stranded with filler
Shielding	≥85% tinned copper braid coverage
Outer sheath	PUR
Sheath colour	Orange RAL 2003
Halogen free	Yes

**Dimensional characteristics**

Outer Diameter	- mm
Copper content	- kg/km
Approximate weight	134 kg/km

**Electrical characteristics**

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

**Mechanical characteristics**

Bending cycles	10 Mio.
Speed	300 m/min
Maximum acceleration	50 m/s <sup>2</sup>

**Usage characteristics**

Field of application	Dynamic
Minimum dynamic operating bending radius	7.5 (xD)
Operating temperature, range	-30 ... 80 °C
Storage temperature, range	-50 ... 80 °C
Oil resistance	EN 50363-10-2
Flame retardant	IEC/EN 60332-1-2; FT1; UL 1581 FT1
Silicone free	Yes