

## HYBRID CABLES ACC. TO HEIDENHAIN HMC6® STANDARD

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Hybrid cables for servo motors for extremely dynamic applications 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.

**Reference:** 49391860

### CONTACT

Market information  
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Halogen free  
**Yes**



Operating temp.  
 -30 ... 80 °C



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



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



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

### CHARACTERISTICS

#### Construction characteristics

Construction type	(4G4,0+(2x1,0)C+(2x0,24+2x2x0,09)C)C
Conductor material	Bending-resistant conductor with bare copper wires
Insulation	TPM with very low capacitance
Insulation colour	Power: Blu-Br-Blk-Gn/Ye; Brake: Wht-Wht/Blk; Supply: Br/Gn - Wht/Gn; Communication: Gry - Pnk - Vio - Ye
Lay Up	power cores and control pairs stranded with filler
Individual screen	Signal shield: Tinned copper braid, coverage >=80%
Screen	Tinned copper braid, coverage ≥ 80%
Inner sheath	TPE compound, optimized for drag chain use
Outer sheath	PUR
Sheath colour	Orange RAL 2003
Halogen free	Yes

#### Dimensional characteristics

Outer Diameter	15.1 mm
Copper content	245 kg/km
Approximate weight	365 kg/km

#### Electrical characteristics

Rated Voltage U <sub>0</sub> /U	0.6/1 kV
Test voltage	4000 V

#### Mechanical characteristics

Bending cycles	5 Mio.
Maximum acceleration	50 m/s <sup>2</sup>
Speed	300 m/min

#### 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	DIN EN 50363-10-2 & DIN EN 60811-404
Flame retardant	IEC 60332-1-2; UL 1581 FT1