

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: 49391760

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	(4G1,5+(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	12.4 mm
Copper content	127 kg/km
Approximate weight	229 kg/km

Electrical characteristics

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

Mechanical characteristics

Bending cycles	5 Mio.
Maximum acceleration	50 m/s ²
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