



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.

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

| | |
|--------------------|--|
| 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 $\geq 80\%$ |
| Screen | Tinned copper braid, coverage $\geq 80\%$ |
| Inner sheath | TPE compound, optimized for drag chain use |
| Outer sheath | PUR |
| Sheath colour | Orange RAL 2003 |
| Halogen free | Yes |

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 |

PRODUCT LIST

| Reference | Country Ref. | Name | Construction type | Outer Diameter [mm] | Copper content [kg/km] |
|------------|--------------|--|--------------------------------------|---------------------|------------------------|
| ☎ 49391760 | - | HYBRID CABLES ACC. TO HEIDENHAIN HMC6® STANDARD (4G1,5+(2x1,0)C+(2x0,24+2x2x0,09)C)C | (4G1,5+(2x1,0)C+(2x0,24+2x2x0,09)C)C | 12.4 | 127 |
| ☎ 49391860 | - | HYBRID CABLES ACC. TO HEIDENHAIN HMC6® STANDARD (4G4,0+(2x1,0)C+(2x0,24+2x2x0,09)C)C | (4G4,0+(2x1,0)C+(2x0,24+2x2x0,09)C)C | 15.1 | 245 |

☎ = Make to order, 📦 = In stock,