



Servo cables for extremely dynamic applications with star quad MOTIONLINE® PREMIUM

STANDARDS

Product UL and CSA approval

Servo cables with star-quad for extremely dynamic applications; PUR jacket, TPE inner jacket, screened, resistant to oils and coolants, notch resistant, flame retardant, resistant to hydrolysis and microbes, PVC- and halogen-free.

Reference: 49470760

CONTACT

Market information
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Halogen free
Yes



Operating temp.
-30 ... 80 °C



Storage temperature, range
-50 ... 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**

| | |
|--------------------|---|
| Construction type | (4G1,5+(4x0,5)C)C |
| Conductor material | Bending-resistant conductor with bare copper wires |
| Insulation | TPM with very low capacitance |
| Lay Up | power cores and control pairs stranded with filler |
| Insulation colour | Power: 3 black cores with marking, 1 core green-yellow Power: U/L1/C/L+ // V/L2 // W/L3/D/L- // Ye/Gn Star-quad: black - white - red - yellow |
| 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 | 131 kg/km |
| Approximate weight | 236 kg/km |

Electrical characteristics

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

Mechanical characteristics

| | |
|----------------------|---------------------|
| Bending cycles | 5 Mio. |
| Speed | 300 m/min |
| Maximum acceleration | 50 m/s ² |

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