



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.

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

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 $\geq 80\%$
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 _o /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

PRODUCT LIST

Reference	Country Ref.	Name	Construction type	Outer Diameter [mm]	Copper content [kg/km]
☎ 49471060	-	SERVO CABLE WITH INNER JACKET (4G6+(4x0,5)C)C	(4G6,0+(4x0,5)C)C	17.4	335
☎ 49471160	-	SERVO CABLE WITH INNER JACKET (4G10+(4x0,5)C)C	(4G10,0+(4x0,5)C)C	20.4	518
☎ 49471260	-	SERVO CABLE WITH INNER JACKET (4G16+(4x0,5)C)C	(4G16,0+(4x0,5)C)C	22.5	750
☎ 49470760	-	SERVO CABLE WITH INNER JACKET (4G1,5+(4x0,5)C)C	(4G1,5+(4x0,5)C)C	12.4	131
☎ 49470860	-	SERVO CABLE WITH INNER JACKET (4G2,5+(4x0,5)C)C	(4G2,5+(4x0,5)C)C	13.9	174
☎ 49470960	-	SERVO CABLE WITH INNER JACKET (4G4+(4x0,5)C)C	(4G4,0+(4x0,5)C)C	15.7	260

☎ = Make to order, 📦 = In stock,