



Servo cables for extremely dynamic applications with control pair MOTIONLINE® PREMIUM

STANDARDS

Product UL and CSA approval

Servo cables with control pair 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: Black - White marking U/L1/C/L+ V/L2 W/L3/D/L- Yellow/ Green; Signal: Black+White
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

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

Mechanical characteristics

Bending cycles	10 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]
☎ 49495060	-	SERVO CABLE WITH INNER JACKET (4G1,5 + (2X1,5)C)C	(4G1.5 + (2x1.5)C)C	13.1	143
☎ 49495160	-	SERVO CABLE WITH INNER JACKET (4G2,5 + (2X1,5)C)C	(4G2.5 + (2x1.5)C)C	14.4	185
☎ 49495260	-	SERVO CABLE WITH INNER JACKET (4G4 + (2X1,5)C)C	(4G4 + (2x1.5)C)C	16.2	266
☎ 49495360	-	SERVO CABLE WITH INNER JACKET (4G6 + (2X1,5)C)C	(4G6 + (2x1.5)C)C	18	346
☎ 49495460	-	SERVO CABLE WITH INNER JACKET (4G10 + (2X1,5)C)C	(4G10 + (2x1.5)C)C	20.5	534
☎ 49495560	-	SERVO CABLE WITH INNER JACKET (4G16 + (2X1,5)C)C	(4G16 + (2x1.5)C)C	24.5	794

☎ = Make to order, 📦 = In stock,

Reference	Country Ref.	Name	Construction type	Outer Diameter [mm]	Copper content [kg/km]
☎ 49495660	-	SERVO CABLE WITH INNER JACKET (4G25 + (2X1,5)C)C	(4G25 +(2x1.5)C) C	28.3	1120

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