



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; 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 $\geq 85\%$
Outer sheath	PUR
Sheath colour	Orange RAL 2003
Halogen free	Yes

### Electrical characteristics

Rated Voltage U <sub>o</sub> /U	0.6/1 kV
Test voltage	4000 V

### Mechanical characteristics

Bending cycles	10 Mio.
Speed	300 m/min
Maximum acceleration	50 m/s <sup>2</sup>

### 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]
☎ 49494061	6FX8008-1BA11-Plus	SERVO CABLE ACC TO SIEMENS STANDARD (4G1,5+(2x1,5)C)C	(4G1.5 + (2x1.5) C)C	11.6	138
☎ 49494161	6FX8008-1BA21-Plus	SERVO CABLE ACC TO SIEMENS STANDARD (4G2,5+(2x1,5)C)C	(4G2.5 + (2x1.5) C)C	13.3	182
☎ 49494261	6FX8008-1BA31-Plus	SERVO CABLE ACC TO SIEMENS STANDARD (4G4+(2x1,5)C)C	(4G4 + (2x1.5) C)C	14.5	246
☎ 49494361	6FX8008-1BA41-Plus	SERVO CABLE ACC TO SIEMENS STANDARD (4G6+(2x1,5)C)C	(4G6 + (2x1.5) C)C	16.6	335
☎ 49494461	6FX8008-1BA51-Plus	SERVO CABLE ACC TO SIEMENS STANDARD (4G10+(2x1,5)C)C	(4G10 + (2x1.5) C)C	19.1	511
☎ 49494561	6FX8008-1BA61-Plus	SERVO CABLE ACC TO SIEMENS STANDARD (4G16+(2x1,5)C)C	(4G16 + (2x1.5) C)C	22.6	783

☎ = Make to order, 📦 = In stock,

Reference	Country Ref.	Name	Construction type	Outer Diameter [mm]	Copper content [kg/km]
☎ 49494661	6FX8008-1BA25-Plus	SERVO CABLE ACC TO SIEMENS STANDARD (4G25+(2x1,5)C)C	(4G25 +(2x1.5) C)C	26.8	1070
☎ 49494761	6FX8008-1BA35-Plus	SERVO CABLE ACC TO SIEMENS STANDARD (4G35+(2x1,5)C)C	(4G35 +(2x1.5) C)C	30.1	1438
☎ 49494861	6FX8008-1BA50-Plus	SERVO CABLE ACC TO SIEMENS STANDARD (4G50+(2x1,5)C)C	(4G50 + (2x1.5) C)C	34.6	2030

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