



Servo cables for extremely dynamic applications. MOTIONLINE® PREMIUM

STANDARDS

Product UL and CSA approval

Servo cables 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 stranded with filler
Insulation colour	Black - white marking U/L1/C/L + V/L2 W/L3/D/L - Yellow/ Green
Screen	Tinned copper braid, coverage ≥ 85%
Outer sheath	PUR
Sheath colour	Orange RAL 2003
Halogen free	Yes

Electrical characteristics

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

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]
☎ 49493061	6FX8008-1BB11-Plus	SERVO CABLE ACC. TO SIEMENS STANDARD (4G1,5)C	4G1.5 C	8.9	80
☎ 49493161	6FX8008-1BB21-Plus	SERVO CABLE ACC. TO SIEMENS STANDARD (4G2,5)C	4G2.5 C	10.5	123
☎ 49493261	6FX8008-1BB31-Plus	SERVO CABLE ACC. TO SIEMENS STANDARD (4G4)C	4G4 C	12.2	189
☎ 49493361	6FX8008-1BB41-Plus	SERVO CABLE ACC. TO SIEMENS STANDARD (4G6)C	4G6 C	14.4	265
☎ 49493461	6FX8008-1BB51-Plus	SERVO CABLE ACC. TO SIEMENS STANDARD (4G10)C	4G10 C	17.9	455
☎ 49493561	6FX8008-1BB61-Plus	SERVO CABLE ACC. TO SIEMENS STANDARD (4G16)C	4G16 C	21.2	720
☎ 49493661	6FX8008-1BB25-Plus	SERVO CABLE ACC. TO SIEMENS STANDARD (4G25)C	4G25 C	25.5	1110

☎ = Make to order, 📦 = In stock,

Reference	Country Ref.	Name	Construction type	Outer Diameter [mm]	Copper content [kg/km]
☎ 49493761	6FX8008-1BB35-Plus	SERVO CABLE ACC. TO SIEMENS STANDARD (4G35)C	4G35 C	29.4	1510
☎ 49493861	6FX8008-1BB50-Plus	SERVO CABLE ACC. TO SIEMENS STANDARD (4G50)C	4G50 C	34.7	2150

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