

MOTIONSERVO

Servomotor cables, PUR sheath, Oil Resistant, High Dynamic Application, Halogen Free

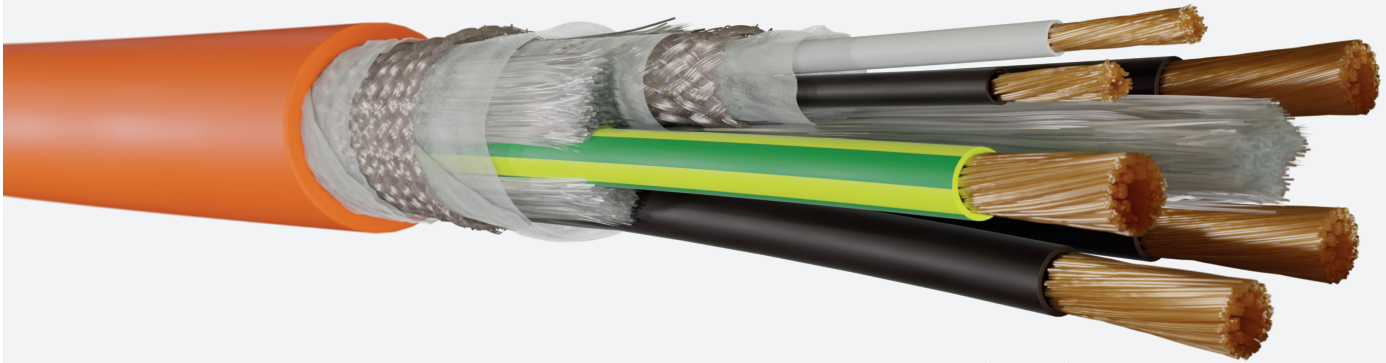
HIGH DYNAMIC PERFORMANCE

HP

PUR
FRHF

600 V
1000 V

-50 °C
+90 °C



UL 21209
90 °C - 1000V



AWM I/II A/B
90 °C - 1000V



LABS
Free



UPON REQUEST



10 million

CYCLES



6,5 x O.D.

MIN. BENDING RADIUS



600 m / min

MAX. SPEED



60 m / s²

ACCELERATION MAX.



≤ 50 N / mm²

PULLING FORCE



± 30 ° / m

TORSION



50 m

MAX. HORIZ. TRAVEL

DURABILITY IN MECHANICAL & THERMAL CONDITIONS

ELECTRICAL PROPERTIES

	m.u.				
CYCLES	MIL	0,2	1	5	10
MIN. BENDING RADIUS	x O.D.	12	6,5	7,5	10
MAXIMUM. SPEED	m/min	180	600	300	240
MAXIMUM ACCELERATION	m/s ²	2,0	50	30	15
PULLING FORCE	N/mm ²	≤ 50	≤ 20	≤ 20	≤ 20
TORSION	°/m	-	± 30	± 30	± 30
MAX HORIZONTAL TRAVEL	m	-	3	15	50
TEMPERATURE	°C	-50 / +90	-40 / +90	-40 / +90	-40 / +90



Test
Voltage

4,0 kV x 5 min
acc.to EN 50395 Cl. 10.3



Insulation
Resistance

≥ 1.0 GΩ x km @ 20 °C
acc.to EN 50395 Cl. 8.1



Max. Short
Circuit
Temperature

160 °C (≤ 1s)



Operating
Voltage

1000 V (UL/CSA)
U₀/U 0.6/1.0 kV (IEC)

RESISTANCE TO ENVIRONMENTAL AND AGGRESSIVE CHEMICAL THREATS



OIL RESISTANT



FLAME RETARDANT



COLD RESISTANT



ABRASION RESISTANT



EMC PROTECTED



WATER RESISTANT



UV RESISTANT



MICROBE RESISTANT



OZONE RESISTANT



MUD RESISTANT


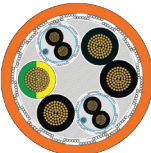







HALOGEN FREE

MAIN ADVANTAGES

Low-Capacitance Structure	Allows for long connections and signal stability even at high frequencies
High-Performance PUR Jacket	Excellent mechanical, chemical, and abrasion resistance
High-Dynamic Construction	Engineered for cable carriers with long travel distances and high accelerations
Full-Coverage Tinned Copper Shielding	Maximum EMC protection for high-precision servo systems
High Resistance to Oils, Coolants, and Chemical Agents	Suitable for use in harsh industrial environments and wet areas
Wide Operating Temperature Range	Reliability even in extreme climatic conditions, indoors or outdoors
Compatibility with Major Servo Systems	Universal solution for multi-brand applications
Robust and Flexible Construction	Long service life and reduced machine downtime

Scan the QRcode for a more detailed digital version on our website

	MotionCables code	EPLAN Code	OEM code	Formation	∅	Cu	DATA SHEET
				mm ²	mm	kg / km	
Acc.to Siemens® 	SDS15G06UP-A	MC.318061531	6FX8008-1BA11	[4 G 1.5 + (2 x 1.5)]	11.6	155	
	SDS13G06UP-A	MC.318061331	6FX8008-1BA21	[4 G 2.5 + (2 x 1.5)]	13.4	200	
	SDS11G06UP-A	MC.318061131	6FX8008-1BA31	[4 G 4 + (2 x 1.5)]	14.4	272	
	SDS09G06UP-A	MC.318060931	6FX8008-1BA41	[4 G 6 + (2 x 1.5)]	16.8	377	
	SDS07G06UP-A	MC.318060731	6FX8008-1BA51	[4 G 10 + (2 x 1.5)]	20.0	552	
	SDS05G06UP-A	MC.318060531	6FX8008-1BA61	[4 G 16 + (2 x 1.5)]	23.7	880	
	SDS03G06UP-A	MC.318060331	6FX8008-1BA25	[4 G 25 + (2 x 1.5)]	26.6	1210	
	SDS02G06UP-A	MC.318060231	6FX8008-1BA35	[4 G 35 + (2 x 1.5)]	30.5	1570	
	SDSA1G06UP-A	MC.31806A131	6FX8008-1BA50	[4 G 50 + (2 x 1.5)]	34.5	2299	
Acc.to Bosch Rexroth Indramat® 	SDSI19G06UP-A	MC.319061931		[4 G 0.75 + (2 x 0.50)]	8.5	73	
	SDSI17G08UP-A	MC.319061731	RELO105	[4 G 1.0 + 2 x (2 x 0.75)]	11.5	170	
	SDSI15G08UP-A	MC.319061531	RELO106	[4 G 1.5 + 2 x (2 x 0.75)]	11.7	189	
	SDSI13G08UP-A	MC.319061331	RELO107	[4 G 2.5 + 2 x (2 x 1.0)]	14.7	223	
	SDSI11G08UP-A	MC.319061131	RELO108	[4 G 4 + (2 x 1) + (2 x 1.5)]	16.3	309	
	SDSI09G08UP-A	MC.319060931	RELO109	[4 G 6 + (2 x 1) + (2 x 1.5)]	18.1	395	
	SDSI07G08UP-A	MC.319060731	RELO110	[4 G 10 + (2 x 1) + (2 x 1.5)]	21.8	575	
	SDSI05G08UP-A	MC.319060531	RELO111	[4 G 16 + 2 x (2 x 1.5)]	24.5	850	
	SDSI03G08UP-A	MC.319060331	RELO112	[4 G 25 + 2 x (2 x 1.5)]	28.8	1250	
	SDSI02G08UP-A	MC.319060231	RELO113	[4 G 35 + 2 x (2 x 1.5)]	30.9	1588	
	SDSIA1G08UP-A	MC.31906A131	INK0668	[4 G 50 + 2 x (2 x 2.5)]	36.3	2351	
Acc.to Lenze® 	SDSL19G06UP-A	MC.320061721		[4G0.75+(2x0.5)]	9.8	91	
	SDSL17G06UP-A	MC.320061731		[4G1.0+(2x0.5)]	10.5	91	
	SDSL15G06UP-A	MC.320061531		[4G1.5+(2x0.5)]	11.5	106	
	SDSL13G06UP-A	MC.320061331		[4G2.5+(2x0.5)]	13.2	153	
	SDSL11G06UP-A	MC.320061131		[4G4.0+(2x1.0)]	14.6	235	
	SDSL09G06UP-A	MC.320060931		[4G6.0+(2x1.0)]	17.5	316	
	SDSL07G06UP-A	MC.320060731		[4G10+(2x1.0)]	20.1	513	
SDSL05G06UP-A	MC.320060531		[4G16+(2x1.0)]	23.8	710		
Acc.to SEW® 	SDSS15G07UP-A	MC.321061731		[4G1.5+(3x1.0)]	11.9	150	
	SDSS13G07UP-A	MC.321061531		[4G2.5+(3x1.0)]	13.4	213	
	SDSS11G07UP-A	MC.321061331		[4G4+(3x1.0)]	15.0	280	
	SDSS09G07UP-A	MC.321061131		[4G6+(3x1.5)]	16.8	390	
	SDSS07G07UP-A	MC.321060931		[4G10+(3x1.5)]	19.3	620	



EPLAN
All the codes are available in the EPLAN PLAN8 System (use the EPLAN code in the relevant column).



SPAC CAVI
All the codes are available in the SPAC CAVI system (use MotionCables item code).

The names of trademarks and standards are provided for reference or information purposes only. These trademarks and standards are the exclusive property of their respective owners (see the complete list on the back cover).