

# Servo Motor Cables

## SL 871 C

TPE motor connection cable with 1 or 2 pairs and overall tinned copper shield, low capacitance 0.6/1 kV



Marking for SL 871 C 8710415:

SAB BRÖCKSKES · D-VIERSEN · SL 871 C 4 x 1.5 mm<sup>2</sup> (1000V) + (2 x 1.5 mm<sup>2</sup>) (300V) 8710415 **DESINA** AWM Style 20235 80°C 1000V CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, VDE 0295, class 6 < 20 AWG with reference to VDE 0812
<b>Insulation:</b>	special polymer
<b>Color code:</b>	<u>supply conductors up to 8710496:</u> black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334 and a green/yellow ground <u>supply conductors up to 8711415:</u> conductor 1: U/L1/C/L+, conductor 2: V/L2 conductor 3: W/L3/D/L- and a green/yellow ground <u>control conductors:</u> with 1 control pair: black, white with 2 control pairs: black with numbers 5, 6 and 7, 8
<b>Stranding:</b>	control conductors: twisted to pairs
<b>Wrapping:</b>	control conductors: non-woven tape
<b>Shielding:</b>	control conductors: tinned copper braiding
<b>Wrapping:</b>	control conductors: non-woven tape
<b>Stranding:</b>	shielded control pairs and supply conductors twisted together with fillers in layers
<b>Wrapping:</b>	non-woven tape
<b>Shielding:</b>	overall tinned copper braiding
<b>Wrapping:</b>	non-woven tape
<b>Jacket material:</b>	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 with matte surface
<b>Jacket color:</b>	orange (RAL 2003)

### Technical data:

<b>Nominal voltage:</b>	supply conductors:	.06/1 kV
<b>Peak operating voltage:</b>	control conductors:	max. 350 V
<b>Voltage UL/CSA:</b>	supply conductors:	1000 V
	control conductors:	300 V from 8711415: 1000 V
<b>Testing voltage:</b>		
<i>supply conductors:</i>	conductor/conductor:	4000 V
	conductor/shielding:	4000 V
<i>control conductors:</i>	conductor/conductor:	2000 V
	conductor/shielding:	2000 V
<b>Min. bending radius:</b>		
<i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
<i>for continuous flexing:</i>	12 x O.D.	
<b>Temperature range:</b>	<b>DIN VDE</b>	<b>UL/CSA:</b> up to +80°C
<i>static:</i>	-50/+90°C	
<i>flexible:</i>	-40/+90°C	
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL FT1, CSA FT1, FT2	
<b>Oil resistance:</b>	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2	
<b>Chemical resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids, etc.	
<b>Weather resistance:</b>	very good	
<b>Approvals:</b>	UR AWM, CSA AWM, CE, EAC, RoHS	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30	

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### Outstanding features:

- low capacitance construction
- very good EMC characteristics
- long service life
- adhesion-free installation
- suitable for cable tracks
- halogen-free
- free from paint wetting impairment substances (PWIS-free)
- flexible at low temperatures
- in accordance with Indramat INK and Siemens 6FX8008



**Cable harnessing  
possible on request**

item no.	power conductors	single pairs individually shielded	nominal outer-ø		cable weight ≈lbs/mft
			inch	mm	
▶ 8710407	19 AWG/ 4c	22 AWG/ 2pr	0.457 ± 0.020	11.6 ± 0.5	113
▶ 8710410	18 AWG/ 4c	19 AWG/ 2pr	0.465 ± 0.020	11.8 ± 0.5	135
▶ 8710415	16 AWG/ 4c	19 AWG/ 2pr	0.484 ± 0.020	12.3 ± 0.5	151
▶ 8710425	14 AWG/ 4c	18 AWG/ 2pr	0.571 ± 0.031	14.5 ± 0.8	215
▶ 8710441	12 AWG/ 4c	18 AWG/ 1pr + 16 AWG/ 1pr	0.685 ± 0.024	17.4 ± 0.6	308
▶ 8710461	10 AWG/ 4c	18 AWG/ 1pr + 16 AWG/ 1pr	0.744 ± 0.031	18.9 ± 0.8	374
▶ 8710471	8 AWG/ 4c	18 AWG/ 1pr + 16 AWG/ 1pr	0.803 ± 0.039	20.4 ± 1.0	509
▶ 8710485	6 AWG/ 4c	16 AWG/ 2pr	1.024 ± 0.031	26.0 ± 0.8	746
▶ 8710490	4 AWG/ 4c	16 AWG/ 2pr	1.157 ± 0.031	29.4 ± 0.8	1019
▶ 8710495	2 AWG/ 4c	16 AWG/ 2pr	1.232 ± 0.031	31.3 ± 0.8	1265
▶ 8710496	1 AWG/ 4c	14 AWG/ 2pr	1.504 ± 0.031	38.2 ± 0.8	1787

item no.	power conductors	single pairs individually shielded	nominal outer-ø		cable weight ≈lbs/mft
			inch	mm	
▶ 8711415	16 AWG/ 4c	16 AWG/ 1pr	0.472 ± 0.012	12.0 ± 0.3	134
▶ 8712415	16 AWG/ 4c	20 AWG/ 1pr	0.504 ± 0.012	12.8 ± 0.3	147
▶ 8711425	14 AWG/ 4c	16 AWG/ 1pr	0.512 ± 0.016	13.0 ± 0.4	195
▶ 8712425	14 AWG/ 4c	20 AWG/ 1pr	0.551 ± 0.016	14.0 ± 0.4	190
▶ 8711440	12 AWG/ 4c	16 AWG/ 1pr	0.591 ± 0.016	15.0 ± 0.4	228
▶ 8711460	10 AWG/ 4c	16 AWG/ 1pr	0.654 ± 0.043	16.6 ± 1.1	316
▶ 8711470	8 AWG/ 4c	16 AWG/ 1pr	0.768 ± 0.063	19.5 ± 1.6	470
▶ 8711480	6 AWG/ 4c	16 AWG/ 1pr	0.906 ± 0.039	23.0 ± 1.0	679
▶ 8711490	4 AWG/ 4c	16 AWG/ 1pr	1.063 ± 0.028	27.0 ± 0.7	974
▶ 8711495	2 AWG/ 4c	16 AWG/ 1pr	1.181 ± 0.039	30.0 ± 1.0	1451
▶ 8711496	1 AWG/ 4c	16 AWG/ 1pr	1.354 ± 0.039	34.4 ± 1.0	1982

Other dimensions and colors are available on request

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