

# SERVO MOTOR CABLES

## SL 851 C (2YSLCYK-J) PE/PVC motor connection cable with overall copper screen 0.6/1 kV



BRÖCKSKES · D-VIERSEN · SL 851 C 4 x

Marking for SL 851 C 08510415:  
SAB BRÖCKSKES · D-VIERSEN · SL 851 C 4 x 1,5 mm<sup>2</sup> CE

SL 851 C is a flexible, tinned copper shielded motor connection cable for DNC motors. This cable is used in automation technology, control and product engineering, machine and industrial motor and in drive systems, as well as power supply cable between frequency converter and servo motor. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PE M/MD acc. to VDE 0819 part 103
<b>Color code:</b>	colored acc. to HD 308 (VDE 0293 part 308) and a green-yellow earth wire
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	Alu-foil
<b>Screen:</b>	tinned copper braiding
<b>Wrapping:</b>	non-woven tape
<b>Jacket material:</b>	special PVC
<b>Jacket color:</b>	black

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 0.6/1 kV
<b>Maximum operating voltage:</b>	<i>in three-phase current and single phase current operation:</i> U <sub>0</sub> /U 0,7/1,2 kV <i>in D.C. current operation:</i> U <sub>0</sub> /U 0,9/1,8 kV <i>peak value of alternating current:</i> U <sup>^</sup> 1,7 kV
<b>Testing voltage U:</b>	4000 V conductor/screen 2500 V
<b>Min. bending radius</b>	≤ 12 mm > 12 mm up to ≤ 20 mm > 20 mm
<i>fixed installation:</i>	5 x O.D. 7.5 x O.D. 10 x O.D.
<i>free movement:</i>	10 x O.D. 15 x O.D. 20 x O.D.
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>static:</i>	-30/+70 °C
<i>flexing:</i>	-15/+70 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page N/27
<b>Chem. resistance:</b>	see page N/9
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

### Outstanding features:

- low surface transfer impedance
- low mutual capacitance
- very good EMC characteristics

item no.	no. of conductors incl. ground	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft
▶ 16 AWG (≈ 27-29/30) • 1.50 mm <sup>2</sup>					▶ 10 AWG (≈ 78/28) • 6.00 mm <sup>2</sup>					▶ 4 AWG (≈ 190/26) • 25.00 mm <sup>2</sup>				
08510415	4	0.421	10.7	116	08510460	4	0.638	16.2	306	08510490	4	1.193	30.3	1132
▶ 14 AWG (≈ 46/36) • 2.50 mm <sup>2</sup>					▶ 8 AWG (≈ 77/26) • 10.00 mm <sup>2</sup>					▶ 2 AWG (≈ 272/26) • 35.00 mm <sup>2</sup>				
08510425	4	0.484	12.3	163	08510470	4	0.787	20.0	478	08510495	4	1.346	34.2	1490
▶ 12 AWG (≈ 52/28) • 4.00 mm <sup>2</sup>					▶ 6 AWG (≈ 122/26) • 16.00 mm <sup>2</sup>					▶ 1 AWG (≈ 400/26) • 50.00 mm <sup>2</sup>				
08510440	4	0.563	14.3	220	08510480	4	1.012	25.7	747	08510496	4	1.457	37.0	1821

Other dimensions and colors are possible on request.



for DNC motors  
on frequency  
converters  
U<sup>^</sup> 1,7 kV