

# SERVO MOTOR CABLES

## SL 833 C PUR motor connection cable with TPE conductors and overall copper screen 0.6/1 kV



Marking for SL 833 C 08330415: SAB BRÖCKSKES · D-VIERSEN · 08330415 4 x 1,5 mm<sup>2</sup>  
 SL 833 C 16 AWG/4c 08331604 1000V **DESINA** AWM Style 20235 80°C CSA AWM I/II A/B 80°C 1000V FT1 FT2 CE

SL 833 C is a halogen free UL/CSA approved, highly flexible, continuous flex motor supply cable which has been designed for automated servo systems. The special ultra flexible design makes SL 833 C ideally suited for small bend radius applications, such as cable track, automated handling equipment and other continuous movement applications.

### Construction:

<b>Conductor:</b>	bbare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	TPE 510
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334 and a green-yellow earth wire
<b>Stranding:</b>	together in layers
<b>Wrapping:</b>	non-woven tape
<b>Screen:</b>	tinned copper braiding
<b>Jacket material:</b>	PU acc. UL 758
<b>Jacket color:</b>	orange

### Technical data:

<b>Nominal voltage:</b>	DIN VDE U <sub>0</sub> /U 0.6/1 kV	
<b>Voltage:</b>	UL/CSA 1000 V	
<b>Testing voltage U:</b>	4000 V	conductor/screen 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>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	DIN VDE	UL/CSA: up to +80 °C
<i>static:</i>	-50/+90 °C	
<i>flexing:</i>	-40/+90 °C	
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2, UL FT1 and CSA FT1 FT2	
<b>Oil resistance:</b>	very good - oil rating 60 °C acc. to UL 1581	
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.	
<b>Absence of harmful substances:</b>	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/25	

### Outstanding features:

- UL + CSA approvals
- very good EMC characteristics
- very high flexibility
- suitable for cable tracks
- oil resistant
- very long service life
- adhesion-free installation
- labs uncritical  
(labs = enamel moisturing interfering substances)
- flexible at low temperatures

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 (169/26) • 25.00 mm <sup>2</sup>				
08331604	4	0.390	9.9	99	08331004	4	0.622	15.8	285	08330404	4	1.004	25.5	932
▶ 14 AWG (46/36) • 2.50 mm <sup>2</sup>					▶ 8 AWG (77/26) • 10.00 mm <sup>2</sup>					▶ 2 AWG (280/26) • 35.00 mm <sup>2</sup>				
08331404	4	0.453	11.5	141	08330804	4	0.740	18.8	435	08330204	4	1.130	28.7	1237
▶ 12 AWG (52/28) • 4.00 mm <sup>2</sup>					▶ 6 AWG (119/26) • 16.00 mm <sup>2</sup>					▶ 1 AWG (400/26) • 50.00 mm <sup>2</sup>				
08331204	4	0.496	12.6	189	08330604	4	0.870	22.1	657	08330104	4	1.315	33.4	1710

Other dimensions and colors are possible on request.



for DNC motors  
on frequency  
converters