

SERVO MOTOR CABLES

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



Style 20235 80°C CSA AWM I/II A/B 80°C 1000V FT1 FT2

Marking for SL 833 C 08330415: SAB BRÖCKSKES · D-VIERSEN · 08330415 4 x 1,5 mm²

SL 833 C 16 AWG/4c 1000V 08331604 **DESINA** AWM Style 20235 80°C CSA AWM I/II A/B 80°C 1000V FT1 FT2

SL 833 C is a UL recognized and 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 and other continuous movement applications.

Construction:

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

Outstanding features:

- ▶ UL recognition and CSA approval
- ▶ 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

Technical data:

Nominal voltage:	DIN VDE U ₀ /U 0.6/1 kV	
Voltage:	UL/CSA 1000 V	
Testing voltage U:	4000 V	conductor/screen 2000 V
Min. bending radius		
<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.	
Radiation resistance:	5 x 10 ⁷ cJ/kg	
Temperature range	DIN VDE	UL/CSA: up to +80 °C
<i>static:</i>	-50/+90 °C	
<i>flexing:</i>	-40/+90 °C	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2, UL FT1 and CSA FT1 FT2	
Oil resistance:	very good - oil raiting 60 °C acc. to UL 1581	
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28	

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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 (≈ 84/34) • 1.50 mm ²					• 10 AWG (≈ 186/32) • 6.00 mm ²					• 4 AWG (≈ 760/32) • 25.00 mm ²				
08331604	4	0.390	9.9	99	08331004	4	0.622	15.8	285	08330404	4	1.004	25.5	932
• 14 AWG (≈ 140/34) • 2.50 mm ²					• 8 AWG (≈ 320/32) • 10.00 mm ²					• 2 AWG (≈ 1083/32) • 35.00 mm ²				
08331404	4	0.453	11.5	141	08330804	4	0.740	18.8	435	08330204	4	1.130	28.7	1237
• 12 AWG (≈ 224/34) • 4.00 mm ²					• 6 AWG (≈ 504/32) • 16.00 mm ²					• 1 AWG (≈ 703/28) • 50.00 mm ²				
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.



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