

SERVO MOTOR CABLES



SL 841 C Combined TPE/PUR motor connection cable with overall copper screen 0.6/1 kV

20235 80°C CSA AWM I/II A/B 80°C 300V FT1 FT2 CE



Marking for SL 841 C 08410407: SAB BRÖCKSKES · D-VIERSEN ·

08410407 SL 841 C 4 x 0,75 mm² (1000V) + 2 x (2 x 0,34 mm²) (300V) **DESINA** AWM Style 20235 80°C CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

The SL 841 C is a UL recognized and CSA approved, overall shielded continuous flex power supply and feedback cable which has been designed for automated servo systems. This composite cable offers a unique combination of signal and power conductors, under one jacket, while reducing weight and saving space. The special design makes SL 841 C ideally suited for automated applications, such as cable track, automated handling equipment, pick-and-place units, gantry robots, machine tools and other continuous movement applications. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emission needs to be suppressed.

Construction:

Conductor:	bare 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 (except 22 AWG = colored) and a green-yellow earth wire.
from item no. 08411415:	supply conductors: * U1, V2, W3 and a green-yellow earth wire control conductors: ** BR1 and BR2
Stranding:	control conductors 22 - 14 AWG twisted to pairs
Screen:	pairs wrapped with Alu-foil, tinned copper braid
Wrapping:	pairs with PETP foil
Stranding:	screened control pairs and supply conductors twisted together in layers
Wrapping:	two layers non-woven tape
Screen:	overall copper screen
Wrapping:	non-woven tape
Jacket material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	orange

Technical data:

Nominal voltage:	DIN VDE: supply conductors U ₀ /U 0.6/1 kV
Voltage:	UL/CSA: supply conductors 1000 V
Peak operating voltage:	DIN VDE: control conductors max. 350 V
Voltage:	UL/CSA: control conductors 300 V
Testing voltage U:	supply conductors 4000 V control conductors 1500 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 - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

Outstanding features:

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



Cable harnessing possible on request

item no.	power conductors	single pairs, individually shielded	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 08410407	19 AWG / 4c	22 AWG / 2pr	0.457 ± 0.020	11.6 ± 0.5	113
▶ 08410410	18 AWG / 4c	19 AWG / 2pr	0.465 ± 0.020	11.8 ± 0.5	135
▶ 08410415	16 AWG / 4c	19 AWG / 2pr	0.484 ± 0.020	12.3 ± 0.5	153
▶ 08410425	14 AWG / 4c	18 AWG / 2pr	0.571 ± 0.031	14.5 ± 0.8	215
▶ 08410441	12 AWG / 4c	18 AWG / 1pr + 16 AWG / 1pr	0.685 ± 0.024	17.4 ± 0.6	308
▶ 08410461	10 AWG / 4c	18 AWG / 1pr + 16 AWG / 1pr	0.744 ± 0.031	18.9 ± 0.8	374
▶ 08410471	8 AWG / 4c	18 AWG / 1pr + 16 AWG / 1pr	0.803 ± 0.039	20.4 ± 1.0	495
▶ 08410485	6 AWG / 4c	16 AWG / 2pr	1.024 ± 0.031	26.0 ± 0.8	747
▶ 08410490	4 AWG / 4c	16 AWG / 2pr	1.157 ± 0.031	29.4 ± 0.8	1019
▶ 08410495	2 AWG / 4c	16 AWG / 2pr	1.232 ± 0.031	31.3 ± 0.8	1265
▶ 08410496	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 inch	mm	cable weight ≈ lbs/mft
▶ 08411415	16 AWG / 4c	16 AWG / 1pr	0.492 ± 0.012	12.5 ± 0.3	149
▶ 08411425	14 AWG / 4c	16 AWG / 1pr	0.524 ± 0.016	13.3 ± 0.4	192
▶ 08411440	12 AWG / 4c	16 AWG / 1pr	0.598 ± 0.016	15.2 ± 0.4	248
▶ 08411460	10 AWG / 4c	16 AWG / 1pr	0.654 ± 0.043	16.6 ± 1.1	326
▶ 08411470	8 AWG / 4c	16 AWG / 1pr	0.768 ± 0.063	19.5 ± 1.6	455
▶ 08411480	6 AWG / 4c	16 AWG / 1pr	0.933 ± 0.039	23.7 ± 1.0	685
▶ 08411490	4 AWG / 4c	16 AWG / 1pr	1.071 ± 0.028	27.2 ± 0.7	953
▶ 08411495	2 AWG / 4c	16 AWG / 1pr	1.185 ± 0.039	30.1 ± 1.0	1216
▶ 08411496	1 AWG / 4c	16 AWG / 1pr	1.354 ± 0.039	34.4 ± 1.0	1655

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com



Web site: www.sabcable.com