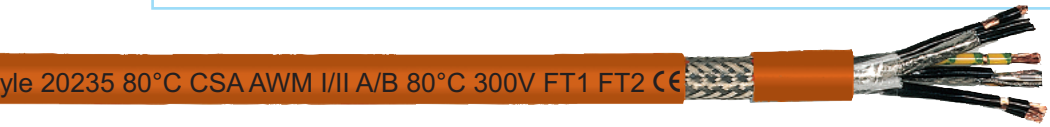
SERVO MOTOR CABLES

SL 841 C

TPE motor connection cable with 1 or 2 pairs and overall tinned copper screen 0.6/1 kV



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

The SL 841 C is a halogen-free 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 < 20 AWG with reference to DIN VDE 0812
Insulation:	TPE
Color code:	black conductors with consecutive numbers acc. to EN 50334 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:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	TMPU acc. to DIN EN 50363-10-2 with mat surface
Jacket color:	orange

Technical data:

Nominal voltage:	supply conductors Uo/U 0.6/1 kV
Voltage UL/CSA:	supply conductors 1000V
Peak operating voltage:	control conductors max. 350 V
Voltage UL/CSA:	control conductors 300 V
Testing voltage:	supply conductors 4000 V control conductors 1500 V
Min. bending radius *fixed installation:* *free movement:* *for continuous flexing:*	 5 x O.D. 10 x O.D. 12 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** **UL/CSA:** up to +80°C -50/+90°C -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 acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical 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 O/30

Outstanding features:

- **UL recognition, CSA approval**
- **very good EMC characteristics**
- **long service life**
- **adhesion-free installation**
- **suitable for cable tracks**
- **halogen-free**
- **free from paint wetting disruptive substances** (LABS - free)
- **flexible at low temperatures**
- **in accordance with Indramat INK and Siemens 6FX8008**

Cable harnessing possible on request.

INDRAMAT

item no.	power conductors	single pairs, individually shielded	nominal outer-ø inch	nominal outer-ø 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

SIEMENS

item no.	power conductors	single pairs, individually shielded	nominal outer-ø inch	nominal outer-ø 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.

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