

# Motor Connection Cables

## SL 841 C

Continuous flex TPE motor connection cable with black numbered power conductors, 1 or 2 supply pairs and overall tinned copper shield, 0.6/1 kV



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



Marking for SL 841 C 8410407:

SAB BRÖCKSKES · D-VIERSEN · 8410407 SL 841 C 4 x 0.75 mm<sup>2</sup> (1000V) + 2 x (2 x 0.34 mm<sup>2</sup>) (300V) **DESINA** AWM Style 20235 80°C CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

Construction:	
<b>Conductor:</b>	bare copper strands acc. to IEC 60228, VDE 0295, class 6 < 20 AWG with reference to VDE 0812
<b>Insulation:</b>	TPE
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334 and a green/yellow ground power supply conductors: * U1, V2, W3 and a green/yellow ground control conductors: ** BR1 and BR2
<b>from item no. 8411415:</b>	
<b>Stranding:</b>	control conductors: 22 - 14 AWG; twisted to pairs
<b>Shielding:</b>	pairs wrapped with alu. foil and tinned copper braiding
<b>Wrapping:</b>	pairs with PETP foil
<b>Stranding:</b>	shielded control pairs and power supply conductors twisted together in layers
<b>Wrapping:</b>	two layers non-woven tape
<b>Shielding:</b>	overall tinned copper braiding
<b>Wrapping:</b>	non-woven tape
<b>Jacket material:</b>	PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 with matte surface
<b>Jacket color:</b>	orange (RAL 2003)

Technical data:	
<b>Peak operating voltage:</b>	control conductors: max. 350 V
<b>Nominal voltage:</b>	power supply conductors: U <sub>o</sub> /U 0.6/1 kV
<b>Voltage UL/CSA:</b>	control conductors: 300 V power supply conductors: 1000 V
<b>Testing voltage:</b>	
power supply conductors:	conductor/conductor: 4000 V conductor/shielding: 4000 V
control conductors:	conductor/conductor: 2000 V conductor/shielding: 2000 V
<b>Min. bending radius:</b>	
fixed installation:	5 x O.D.
free movement:	10 x O.D.
for continuous flexing:	12 x O.D.
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range:</b>	<b>DIN VDE</b> UL/CSA: up to +80°C static: -50/+90°C flexible: -40/+90°C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + VDE 0482-754-1
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2; UL FT1, CSA FT1, FT2
<b>Oil resistance:</b>	very good - TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
<b>Chemical resistance:</b>	good - against acids, alkalines, solvents, hydraulic liquids, etc.
<b>Weather resistance:</b>	very good
<b>Approvals:</b>	UR AWM, CSA AWM, CE, RoHS
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30

**Outstanding features:**

- UL recognized, CSA approval
- Very good EMC characteristics
- Long service life
- Adhesion-free installation
- High flexibility
- Suitable for cable tracks
- Halogen-free
- Free from paint wetting impairment substances (PWIS-free)
- Flexible at low temperatures
- DESINA® colors (see page G/3)
- In accordance with Indramat INK and Siemens 6FX8008

**Cable harnessing possible on request**

item no.	power supply conductors	control pairs individually shielded	outer-ø		cable weight ≈lbs/mft
			inch	mm	
▶ 8410407	19 AWG/4c	22 AWG/2pr	0.457 ± 0.020	11.6 ± 0.5	113
▶ 8410410	18 AWG/4c	19 AWG/2pr	0.465 ± 0.020	11.8 ± 0.5	135
▶ 8410415	16 AWG/4c	19 AWG/2pr	0.484 ± 0.020	12.3 ± 0.5	153
▶ 8410425	14 AWG/4c	18 AWG/2pr	0.571 ± 0.031	14.5 ± 0.8	215
▶ 8410441	12 AWG/4c	18 AWG/1pr + 16 AWG/1pr	0.685 ± 0.024	17.4 ± 0.6	308
▶ 8410461	10 AWG/4c	18 AWG/1pr + 16 AWG/1pr	0.744 ± 0.031	18.9 ± 0.8	374
▶ 8410471	8 AWG/4c	18 AWG/1pr + 16 AWG/1pr	0.803 ± 0.039	20.4 ± 1.0	495
▶ 8410485	6 AWG/4c	16 AWG/2pr	1.024 ± 0.031	26.0 ± 0.8	746
▶ 8410490	4 AWG/4c	16 AWG/2pr	1.157 ± 0.031	29.4 ± 0.8	1019
▶ 8410495	2 AWG/4c	16 AWG/2pr	1.232 ± 0.031	31.3 ± 0.8	1265
▶ 8410496	1 AWG/4c	14 AWG/2pr	1.504 ± 0.031	38.2 ± 0.8	1787

item no.	power conductors	control pairs individually shielded	outer-ø		cable weight ≈lbs/mft
			inch	mm	
▶ 8411415	16 AWG/4c	16 AWG/1pr	0.492 ± 0.012	12.5 ± 0.3	149
▶ 8411425	14 AWG/4c	16 AWG/1pr	0.524 ± 0.016	13.3 ± 0.4	191
▶ 8411440	12 AWG/4c	16 AWG/1pr	0.598 ± 0.016	15.2 ± 0.4	248
▶ 8411460	10 AWG/4c	16 AWG/1pr	0.654 ± 0.043	16.6 ± 1.1	326
▶ 8411470	8 AWG/4c	16 AWG/1pr	0.768 ± 0.063	19.5 ± 1.6	455
▶ 8411480	6 AWG/4c	16 AWG/1pr	0.933 ± 0.039	23.7 ± 1.0	685
▶ 8411490	4 AWG/4c	16 AWG/1pr	1.071 ± 0.028	27.2 ± 0.7	953
▶ 8411495	2 AWG/4c	16 AWG/1pr	1.185 ± 0.039	30.1 ± 1.0	1216
▶ 8411496	1 AWG/4c	16 AWG/1pr	1.354 ± 0.039	34.4 ± 1.0	1655

Other dimensions and colors are available on request

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