

Servo Motor Cables

SL 841 C

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



Marking for SL 841 C 8410407:

SAB BRÜCKSKES · D-VIERSEN · 8410407 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

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 6 < 20 AWG with reference to VDE 0812
Insulation:	TPE
Color code:	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334 and a green/yellow ground supply conductors: * U1, V2, W3 and a green/yellow ground control conductors: ** BR1 and BR2
from item no. 08411415:	
Stranding:	control conductors 22 - 14 AWG twisted to pairs
Shielding:	pairs wrapped with alu-foil, tinned copper braiding
Wrapping:	pairs with PETP foil
Stranding:	shielded control pairs and supply conductors twisted together in layers
Wrapping:	two layers non-woven tape
Shielding:	overall tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 with matte surface
Jacket color:	orange (RAL 2003)

Technical data:

Nominal voltage:	supply conductors: U ₀ /U 0.6/1 kV
Peak operating voltage:	control conductors: max. 350 V
Voltage UL/CSA:	control conductors: 300 V supply conductors: 1000 V
Testing voltage:	
<i>supply conductors:</i>	conductor/conductor: 4000 V conductor/shielding: 4000 V
<i>control conductors:</i>	conductor/conductor: 2000 V conductor/shielding: 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>flexible:</i> -40/+90°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL FT1, CSA FT1, FT2
Oil resistance:	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Chemical resistance:	good against acids, alkalines, solvents, hydraulic liquids, etc.
Weather resistance:	very good
Approvals:	UR AWM, CSA AWM, CE, EAC, RoHS
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 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 conductors	single pairs individually shielded	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 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	single pairs individually shielded	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 8411415	16 AWG/ 4c	16 AWG/ 1pr	0.492 ± 0.012	12.5 ± 0.3	49
▶ 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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