

SERVO MOTOR CABLES

SL 843 C TPE/PUR transmission cable with overall copper screen



Marking for SL 843 C 08430006: SAB BRÖCKSKES · D-VIERSEN ·
08430006 SL 843 C 3 x 2 x 0,25 mm² + 2 x 0,5 mm² **DESINA** AWM Style 20235 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 CE

SL 843 C is a continuous flexing UL and CSA approved transmission cable with an overall tinned copper braid. This cable is designed for automated servo systems and also suitable for resolvers and shaft encoders. An overall tinned copper braid is recommended whenever interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

Conductor:	bare copper strands acc. to DIN VDE 0812
Insulation:	TPE 510
Color code:	colored
Stranding:	in layers or pairwise
Screen:	acc. to dimension: pairs screened or wrapped with tinned copper braid
Inner jacket:	TPE 510 over screened pairs
Stranding:	conductors/pairs twisted together in layers
Wrapping:	one or two layers non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	orange or green

Technical data:

Peak operating voltage:	DIN VDE: max. 350 V	
Voltage:	UL/CSA: 300 V	
Testing voltage U:	2000 V	
Min. bending radius		
fixed installation:	5 x O.D.	
free movement:	10 x O.D.	
for continuous flexing:	12 x O.D.	
Radiation resistance:	5 x 10 ⁷ cJ/kg	
Temperature range	DIN VDE	UL/CSA: up to +80 °C
static:	-50/+90 °C	
flexing:	-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	
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-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/25	

Outstanding features:

- good EMC characteristics
- high flexibility
- oil resistant
- long service life
- adhesion-free installation
- halogen-free
- labs uncritical
(labs = enamel moisturing interfering substances)



**suitable for
resolvers and
shaft encoders**

item no.	dimensions	jacket color	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 08430009	24 AWG / 4pr + 20 AWG / 2c	orange	0.346 ± 0.012	8.8 ± 0.3	69
▶ 08430010	24 AWG / 4pr + 18 AWG / 2c	orange	0.346 ± 0.012	8.8 ± 0.3	75
▶ 08430160	24 AWG / 3pr + 24 AWG / 3c + 18 AWG / 2c	orange	0.394 ± 0.012	10.0 ± 0.3	93
▶ 08430040	24 AWG / 3pr	orange	0.343 ± 0.012	8.7 ± 0.3	65
▶ 08430060	26 AWG / 4pr + 26 AWG / 4c + 18 AWG / 4c	orange	0.382 ± 0.012	9.7 ± 0.3	95
▶ 08430012	26 AWG / 4pr + 20 AWG / 4c	green	0.358 ± 10%	9.1 ± 10%	72
▶ 08430112	26 AWG / 10c + 20 AWG / 2c	green	0.323 ± 10%	8.2 ± 10%	56
▶ 08430114	26 AWG / 10c + 20 AWG / 4c	green	0.346 ± 10%	8.8 ± 10%	68
▶ 08430006	24 AWG / 3pr + 20 AWG / 2c	green	0.343 ± 10%	8.7 ± 10%	58
▶ 08430013	22 AWG / 4pr + 20 AWG / 4c	green	0.398 ± 10%	10.1 ± 10%	90
▶ 08430020	26 AWG / 3pr + 18 AWG / 2c	green	0.386 ± 10%	9.8 ± 10%	81
▶ 08430022	26 AWG / 3pr + 20 AWG / 2c	green	0.390 ± 10%	9.9 ± 10%	87
▶ 08431050	26 AWG / 3pr + 26 AWG / 4c + 24 AWG / 4c + 20 AWG / 2c	green	0.437 ± 10%	11.1 ± 10%	103
▶ 08430070	26 AWG / 3pr + 26 AWG / 4c + 20 AWG / 2c	green	0.390 ± 10%	9.9 ± 10%	83
▶ 08430310	24 AWG / 12c	green	0.307 ± 10%	7.8 ± 10%	60
▶ 08430212	26 AWG / 2pr	green	0.252 ± 10%	6.4 ± 10%	34
▶ 08430214	26 AWG / 4pr	green	0.307 ± 10%	7.8 ± 10%	47
▶ 08430216	26 AWG / 8pr	green	0.366 ± 10%	9.3 ± 10%	68

Other dimensions and colors are possible on request.

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