

suitable for cable tracks and very good EMC

# SERVO MOTOR CABLES



## SL 801 C Combined TPE/PUR motor connection cable with overall copper screen 0.6/1 kV



Marking for SL 801 C 08010407:

SAB BRÖCKSKES · D-VIERSEN · SL 801 C 4 x 0,75 mm² + 2 x (2 x 0,34 mm²) **DESINA** CE

The SL 801 C is an overall shielded continuous flex power supply and feedback cable which has been designed for automated servo systems. The 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 801 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:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6 < 0,5 mm² with reference to DIN VDE 0812
<b>Insulation:</b>	TPE 510
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334 (except 22 AWG = colored) and a green-yellow earth wire
<b>from item no. 08011415:</b>	supply conductors: U1, V2, W3 and a green-yellow earth wire control conductors: BR1 and BR2
<b>Stranding:</b>	control conductors 22 AWG - 14 AWG twisted to pairs
<b>Screen:</b>	pairs wrapped with Alu-foil and tinned copper braid
<b>Wrapping:</b>	pairs with PETP foil
<b>Stranding:</b>	screened control pairs and supply conductors twisted together in layers
<b>Wrapping:</b>	non-woven tape
<b>Screen:</b>	tinned copper braiding
<b>Wrapping:</b>	non-woven tape
<b>Jacket material:</b>	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
<b>Jacket color:</b>	orange

### Technical data:

<b>Nominal voltage:</b>	supply conductors U <sub>0</sub> /U 0.6/1 kV
<b>Peak operating voltage:</b>	control conductors max. 500 V
<b>Testing voltage U:</b>	supply conductors 4000 V control conductors 1500 V
<b>Min. bending radius</b>	
<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.
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>static:</i>	-50/+90 °C
<i>flexing:</i>	-40/+90 °C
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Weather resistance:</b>	very good
<b>Absence of harmful substances:</b>	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
- 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/mt
▶ 08010407	19 AWG / 4c	22 AWG / 2pr	0.413 ± 0.020	10.5 ± 0.5	108
▶ 08010410	18 AWG / 4c	19 AWG / 2pr	0.472 ± 0.020	12.0 ± 0.5	140
▶ 08010415	16 AWG / 4c	19 AWG / 2pr	0.480 ± 0.020	12.2 ± 0.5	157
▶ 08010425	14 AWG / 4c	18 AWG / 2pr	0.591 ± 0.031	15.0 ± 0.8	210
▶ 08010441	12 AWG / 4c	18 AWG / 1pr + 16 AWG / 1pr	0.701 ± 0.024	17.8 ± 0.6	311
▶ 08010461	10 AWG / 4c	18 AWG / 1pr + 16 AWG / 1pr	0.732 ± 0.031	18.6 ± 0.8	390
▶ 08010471	8 AWG / 4c	18 AWG / 1pr + 16 AWG / 1pr	0.886 ± 0.039	22.5 ± 1.0	532
▶ 08010485	6 AWG / 4c	16 AWG / 2pr	1.087 ± 0.031	27.6 ± 0.8	759
▶ 08010490	4 AWG / 4c	16 AWG / 2pr	1.102 ± 0.039	28.0 ± 1.0	1013
▶ 08010495	2 AWG / 4c	16 AWG / 2pr	1.260 ± 0.039	32.0 ± 1.0	1351
▶ 08010496	1 AWG / 4c	14 AWG / 2pr	1.504 ± 0.039	38.2 ± 1.0	1926

item no.	power conductors	single pairs, individually shielded	nominal outer-ø inch	mm	cable weight ≈ lbs/mt
▶ 08011415	16 AWG / 4c	16 AWG / 1pr	0.492 ± 0.016	12.5 ± 0.4	143
▶ 08011425	14 AWG / 4c	16 AWG / 1pr	0.543 ± 0.016	13.8 ± 0.4	179
▶ 08011440	12 AWG / 4c	16 AWG / 1pr	0.587 ± 0.016	14.9 ± 0.4	237
▶ 08011460	10 AWG / 4c	16 AWG / 1pr	0.657 ± 0.043	16.7 ± 1.1	329
▶ 08011470	8 AWG / 4c	16 AWG / 1pr	0.756 ± 0.063	19.2 ± 1.6	469
▶ 08011480	6 AWG / 4c	16 AWG / 1pr	0.906 ± 0.067	23.0 ± 1.7	677
▶ 08011490	4 AWG / 4c	16 AWG / 1pr	1.059 ± 0.039	26.9 ± 1.0	973
▶ 08011495	2 AWG / 4c	16 AWG / 1pr	1.220 ± 0.039	31.0 ± 1.0	1352
▶ 08011496	1 AWG / 4c	16 AWG / 1pr	1.370 ± 0.039	34.8 ± 1.0	1811

Other dimensions and colors are possible on request.

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