

# 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 mm<sup>2</sup> + 2 x 0,5 mm<sup>2</sup> **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 recognized 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:

|                         |   |
|-------------------------|---|
| <b>Conductor:</b>       | bare copper strands acc. to DIN VDE 0812                                    |
| <b>Insulation:</b>      | TPE   |
| <b>Color code:</b>      | colored   |
| <b>Stranding:</b>       | in layers or pairwise   |
| <b>Screen:</b>          | acc. to dimension:<br>pairs screened or wrapped with<br>tinned copper braid |
| <b>Inner jacket:</b>    | TPE over screened pairs   |
| <b>Stranding:</b>       | conductors/pairs twisted together in layers                                 |
| <b>Wrapping:</b>        | one or two layers 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<br>+ HD 22.10 with mat surface            |
| <b>Jacket color:</b>    | orange or green   |

### Technical data:

|                                       |  |                             |
|---------------------------------------|--|-----------------------------|
| <b>Peak operating voltage:</b>        | <b>DIN VDE:</b> max. 350 V   |                             |
| <b>Voltage:</b>                       | <b>UL/CSA:</b> 300 V   |                             |
| <b>Testing voltage U:</b>             | 2000 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>              | <b>DIN VDE</b>   | <b>UL/CSA:</b> up to +80 °C |
| <i>static:</i>                        | -50/+90 °C   |                             |
| <i>flexing:</i>                       | -40/+90 °C   |                             |
| <b>Burning characteristics:</b>       | flame retardant and self-extinguishing<br>acc. to IEC 60332-1-2, EN 60332-1-2,<br>UL FT1 and CSA FT1 |                             |
| <b>Oil resistance:</b>                | very good - TMPU acc. to DIN VDE 0282 part 10<br>+ HD 22.10  |                             |
| <b>Chem. resistance:</b>              | good against acids, alkalines, solvents,<br>hydraulic liquids etc.                                   |                             |
| <b>Weather resistance:</b>            | very good  |                             |
| <b>Absence of harmful substances:</b> | acc. to RoHS directive of the European Union<br>see page N/28  |                             |

### Outstanding features:

- **UL recognition and CSA approval**
- **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**

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| item no.   | dimensions   | jacket color | nominal outer-<br>inch | nominal outer-<br>mm | cable weight<br>≈ lbs/mft |
|------------|--|--------------|------------------------|----------------------|---------------------------|
| ▶ 08430009 | 24 AWG / 4pr + 20 AWG / 2c                             | orange       | 0.346 ± 0.012          | 8.8 ± 0.3            | 62                        |
| ▶ 08430010 | 24 AWG / 4pr + 18 AWG / 2c                             | orange       | 0.346 ± 0.012          | 8.8 ± 0.3            | 65                        |
| ▶ 08430160 | 24 AWG / 3pr + 24 AWG / 3c + 18 AWG / 2c               | orange       | 0.394 ± 0.012          | 10.0 ± 0.3           | 89                        |
| ▶ 08430040 | 24 AWG / 3pr   | orange       | 0.343 ± 0.012          | 8.7 ± 0.3            | 63                        |
| ▶ 08430060 | 26 AWG / 4pr + 26 AWG / 4c + 18 AWG / 4c               | orange       | 0.386 ± 0.012          | 9.8 ± 0.3            | 91                        |
| ▶ 08430012 | 26 AWG / 4pr + 20 AWG / 4c                             | green        | 0.358 ± 10%            | 9.1 ± 10%            | 68                        |
| ▶ 08430112 | 26 AWG / 10c + 20 AWG / 2c                             | green        | 0.335 ± 10%            | 8.5 ± 10%            | 60                        |
| ▶ 08430114 | 26 AWG / 10c + 20 AWG / 4c                             | green        | 0.354 ± 10%            | 9.0 ± 10%            | 71                        |
| ▶ 08430006 | 24 AWG / 3pr + 20 AWG / 2c                             | green        | 0.343 ± 10%            | 8.7 ± 10%            | 60                        |
| ▶ 08430013 | 22 AWG / 4pr + 20 AWG / 4c                             | green        | 0.406 ± 10%            | 10.3 ± 10%           | 91                        |
| ▶ 08430020 | 26 AWG / 3pr + 18 AWG / 2c                             | green        | 0.394 ± 10%            | 10.0 ± 10%           | 85                        |
| ▶ 08430022 | 26 AWG / 3pr + 20 AWG / 2c                             | green        | 0.398 ± 10%            | 10.1 ± 10%           | 90                        |
| ▶ 08431050 | 26 AWG / 3pr + 26 AWG / 4c + 24 AWG / 4c + 20 AWG / 2c | green        | 0.421 ± 10%            | 10.7 ± 10%           | 87                        |
| ▶ 08430070 | 26 AWG / 3pr + 26 AWG / 4c + 20 AWG / 2c               | green        | 0.398 ± 10%            | 10.1 ± 10%           | 82                        |
| ▶ 08430310 | 24 AWG / 12c   | green        | 0.335 ± 10%            | 8.5 ± 10%            | 58                        |
| ▶ 08430212 | 26 AWG / 2pr   | green        | 0.264 ± 10%            | 6.7 ± 10%            | 34                        |
| ▶ 08430214 | 26 AWG / 4pr   | green        | 0.323 ± 10%            | 8.2 ± 10%            | 48                        |
| ▶ 08430216 | 26 AWG / 8pr   | green        | 0.382 ± 10%            | 9.7 ± 10%            | 70                        |

Other dimensions and colors are possible on request.

E-mail: [info@sabcable.com](mailto:info@sabcable.com)



Web site: [www.sabcable.com](http://www.sabcable.com)