

# SERVO MOTOR CABLES

suitable for  
cable tracks



## SL 803 C TPE/PUR transmission cable with overall copper screen



Marking for SL 803 C 08030112:

SAB BRÖCKSKES · D-VIERSEN · SL 803 C 10 x 0,14 mm<sup>2</sup> + 2 x 0,5 mm<sup>2</sup> **DESINA** CE

SL 803 C is a continuous flexible, tinned copper shielded, multi conductor, transmission cable. The cable is designed for use in highly flexible applications, connection for speedometer, brake, temperature control in motors, for continuous flexible connection in automation systems and on wood working machines and industrial factory construction, even with high mechanical demands in dry, damp and wet conditions, as well as at low temperatures. With an polyurethane outer jacket this cable has very good resistance against acids, alkalines, solvents hydraulic liquids and oil. An overall tinned copper braid is recommended whenever electrical 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 510   |
| <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 510   |
| <b>Stranding:</b>       | conductors/pairs twisted together in layers                                 |
| <b>Wrapping:</b>        | non-woven tape or netting 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>    | green   |

### Technical data:

|                                       |   |
|---------------------------------------|---|
| <b>Peak operating voltage:</b>        | max. 350 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>              |   |
| <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<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-guideline 2002/95/EG as well as<br>GefStoffV appendix IV-no. 24, see page N/25 |

### Outstanding features:

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

**suitable for  
resolvers and  
shaft encoders**

| item no.   | dimensions   | jacket color | nominal inch<br>±10% | outer-Ø mm<br>±10% | cable weight<br>≈ lbs/mft |
|------------|--|--------------|----------------------|--------------------|---------------------------|
| ➤ 08030009 | 24 AWG / 4pr + 20 AWG / 2c                             | orange       | 0.307                | 7.8                | 54                        |
| ➤ 08030010 | 24 AWG / 4pr + 18 AWG / 2c                             | orange       | 0.311                | 7.9                | 62                        |
| ➤ 08030160 | 24 AWG / 3pr + 24 AWG / 3c + 18 AWG / 2c               | orange       | 0.311                | 7.9                | 65                        |
| ➤ 08030040 | 24 AWG / 3pr   | orange       | 0.248                | 6.3                | 35                        |
| ➤ 08030060 | 26 AWG / 4pr + 26 AWG / 4c + 18 AWG / 4c               | orange       | 0.382                | 9.7                | 91                        |
| ➤ 08030012 | 26 AWG / 4pr + 20 AWG / 4c                             | green        | 0.311                | 7.9                | 58                        |
| ➤ 08030112 | 26 AWG / 10c + 20 AWG / 2c                             | green        | 0.276                | 7.0                | 44                        |
| ➤ 08030114 | 26 AWG / 10c + 20 AWG / 4c                             | green        | 0.307                | 7.8                | 56                        |
| ➤ 08030013 | 22 AWG / 4pr + 20 AWG / 4c                             | green        | 0.350                | 8.9                | 75                        |
| ➤ 08030020 | 26 AWG / 3pr + 18 AWG / 2c                             | green        | 0.339                | 8.6                | 69                        |
| ➤ 08030022 | 26 AWG / 3pr + 20 AWG / 2c                             | green        | 0.346                | 8.8                | 73                        |
| ➤ 08031050 | 26 AWG / 3pr + 26 AWG / 4c + 24 AWG / 4c + 20 AWG / 2c | green        | 0.374                | 9.5                | 81                        |

Other dimensions and colors are possible on request.

**DESINA**

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



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

G  
21