

Servo Motor Cables

SL 843 C

Composite TPE/PUR transmission cable with overall tinned copper shield



Marking for SL 843 C 8431050:

SAB BRÖCKSKES · D-VIERSEN · 8431050 SL 843 C 3 x (2 x 0.14 mm² D) + 4 x 0.22 mm² + 2 x 0.5 mm² **DESINA** AWM-Style 20235 80°C CSA AWM I/II A/B 80°C 300V FT1 CE

Construction:

| | |
|-------------------------|--|
| Conductor: | bare copper strands with reference to VDE 0812 |
| Insulation: | TPE |
| Color code: | colored (see chart below) |
| Stranding: | in layers or pairwise |
| Shielding: | <i>acc. to dimension:</i> pairs with tinned copper wires braided or wrapped |
| Inner jacket: | TPE over shielded pairs |
| Stranding: | conductors/pairs twisted together in layers |
| Wrapping: | one or two layers non-woven tape |
| Shielding: | 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: | green (RAL 6018) or orange (RAL 2003) |

Technical data:

| | | |
|---------------------------------------|--|----------------------------|
| Peak operating voltage: | max. 350 V | |
| Voltage UL/CSA: | 300 V | |
| Testing voltage: | 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 | |
| Oil resistance: | very good - TPU 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
- good EMC characteristics
- suitable for cable tracks
- oil resistant
- long service life
- adhesion-free installation
- halogen-free
- free from paint wetting impairment substances (PWIS-free)
- in accordance with Indramat INK and Siemens 6FX8008

suitable for
resolvers and shaft encoders

| item no. | dimensions | jacket color | nominal outer-ø | | cable weight ≈lbs/mft | color codes |
|-----------|-----------------------------------|--------------|-----------------|------------|-----------------------|---|
| | | | inch | mm | | |
| ▶ 8430009 | 24/4pr + 20/2c | orange | 0.346 ± 0.012 | 8.8 ± 0.3 | 62 | (BN/GN+RD/BK+BU/VT+GY/PK) - (WH+BN) |
| ▶ 8430010 | 24/4pr + 18/2c | orange | 0.346 ± 0.012 | 8.8 ± 0.3 | 65 | (BN/GN+RD/BK+BU/VT+GY/PK) - (WH+BN) |
| ▶ 8430160 | (24/3pr)D + 24/3c + 18/2c | orange | 0.394 ± 0.012 | 10.0 ± 0.3 | 89 | (GN/YE+GY/PK+BU/RD) - (GY-PK+RD-BU+WH-GN) - (WH+BN) |
| ▶ 8430040 | (24/3pr)D | orange | 0.343 ± 0.012 | 8.7 ± 0.3 | 63 | (WH/BN+GN/YE+GY/PK) |
| ▶ 8430060 | 26/4pr + (26/4c)D + 18/4c | orange | 0.386 ± 0.012 | 9.8 ± 0.3 | 91 | (GY/PK+YE/VT+BN/GN+BK/RD) - (GN-BK+BU-BK+YE-BK+RD-BK) - (WH+BU+WH-GN+BN-GN) |
| ▶ 8430012 | 26/4pr + 20/4c | green | 0.358 ± 10% | 9.1 ± 10% | 68 | (PK/GY+RD/BK+BN/GN+YE/VT) - (BU+WH+BN-GN+WH-GN) |
| ▶ 8430112 | 26/10c + 20/2c | green | 0.335 ± 10% | 8.5 ± 10% | 60 | (WH+BN+GN+YE+GY+PK+BU+RD+BK+VT) - (WH+BN) |
| ▶ 8430114 | 26/10c + 20/4c | green | 0.354 ± 10% | 9.0 ± 10% | 71 | (WH+BN+GN+YE+GY+PK+BU+RD+BK+VT) - (WH+BN+GN+YE) |
| ▶ 8430006 | 24/3pr + 20/2c | green | 0.343 ± 10% | 8.7 ± 10% | 60 | (WH/BN+GN/YE+GY/PK) - (BU+RD) |
| ▶ 8430013 | 22/4pr + 20/4c | green | 0.406 ± 10% | 10.3 ± 10% | 91 | (WH/BN+GN/YE+GY/PK+BU/RD) - (BK+VT+GY-PK+RD-BU) |
| ▶ 8430020 | (26/3pr)C + 18/2c | green | 0.394 ± 10% | 10.0 ± 10% | 85 | (GN/YE+GY/PK+BU/RD) - (WH+BN) |
| ▶ 8430022 | (26/3pr)C + (20/2c)C | green | 0.398 ± 10% | 10.1 ± 10% | 90 | (GN/YE+GY/PK+BU/RD) - (WH+BN) |
| ▶ 8431050 | (26/3pr)D + 26/4c + 24/4c + 20/2c | green | 0.421 ± 10% | 10.7 ± 10% | 87 | (RD/OR+BN/BK+GN/YE) - (BU+GY+WH-BK+WH-YE) - (BN-YE+GN-RD+BN-GY+GN-BK) - (BN-BU+BN-RD) |
| ▶ 8430070 | (26/3pr)D + 26/4c + 20/2c | green | 0.398 ± 10% | 10.1 ± 10% | 82 | (RD/OR+BN/BK+GN/YE) - (BU+GY+WH-BK+WH-YE) - (BN-BU+BN-RD) |
| ▶ 8430310 | 24/12c | green | 0.335 ± 10% | 8.5 ± 10% | 58 | (WH+BN+GN+YE+GY+PK+BU+RD+BK+VT+GY-PK+RD-BU) |
| ▶ 8430212 | 26/2pr | green | 0.264 ± 10% | 6.7 ± 10% | 34 | (WH/BN+GN/YE) |
| ▶ 8430214 | 26/4pr | green | 0.323 ± 10% | 8.2 ± 10% | 48 | (WH/BN+GN/YE+GY/PK+BU/RD) |
| ▶ 8430216 | 26/8pr | green | 0.382 ± 10% | 9.7 ± 10% | 70 | (WH/BN+GN/YE+GY/PK+BU/RD+BK/VT+GY-PK/RD-BU+WH-GN/BN-GN+WH-YE/BN) |

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Other dimensions and colors are available on request
pair in () denotes shielded. C = tinned copper braid. D = tinned copper spiral.

www.sabcable.com

866-722-2974 ■ info@sabcable.com

