

# Servo Motor Cables

## SL 893 C

low capacity PUR incremental encoder and feedback cable with overall copper screen



AWM Style 20233 I/II A/B 80°C 300V FT1 FT2 CE



marking example:

SAB BRÜCKSKES · D-VIERSEN · 0893-0003 SL 893 C 5x2x0,25mm<sup>2</sup>+2x0,50 mm<sup>2</sup> DESINA cULus AWM Style 20233 I/II A/B 80°C 300V FT1 FT2 CE

### Construction:

**Conductor:** bare copper strands with reference to VDE 0812 + IEC 60228, VDE 0295, class 6

**Insulation:** special polymer

**Colour code:** coloured

**Stranding:** cores/pairs twisted together in layer

*depending on construction:*

**Screen:** wrapped with tinned copper braiding

**Inner Sheath:** special polymer

**Wrapping:** non-woven tape or foil

**Screen:** tinned copper braiding

**Wrapping:** non-woven tape or foil

**Sheath material:** PUR

**Sheath colour:** green (RAL 6018) or orange (RAL 2003)

### Outstanding features:

- » UL/cUL recognized
- » low capacity construction
- » good EMC characteristics
- » high flexibility
- » suitable for cable tracks
- » very good oil resistance
- » long service life
- » adhesion-free installation
- » halogen-free
- » PWIS uncritical  
(PWIS = paint-wetting impairment substances)
- » DESINA® colours (see page C/4)

### Technical data:

**Peak operating voltage:** 30 V (UL AWM Style 20236) or 300 V (UL AWM Style 20233)

**Testing voltage:**  
core/core 600 V (at 30 V)  
core/screen 600 V (at 30 V)  
core/core 2000 V (at 300 V)  
core/screen 2000 V (at 300 V)

**Min. bending radius**

*fixed laying:*

5 x d

*flexible application:*

10 x d

**Temperature range**

DIN VDE UL/cUL: up to +80 °C

*fixed laying:*

-50/+90 °C

*flexible application:*

-40/+90 °C

**Halogen-free:**

acc. to IEC 60754-1 + VDE 0482-754-1

**Fire performance:**

flame retardant and self-extinguishing  
acc. to IEC 60332-1-2 + VDE 0482-332-1-2.  
cUL FT1, FT2

**Oil resistance:**

very good - TMPU  
acc. to EN 50363-10-2 + VDE 0207-363-10-2

**Chem. resistance:**

good against acids, alkalines, solvents,  
hydraulic liquids etc.

**Weather resistance:**

very good

**Absence of**

**harmful substances:**

acc. to RoHS directive of the European Union,  
see chapter N „Technical data“

suitable for resolvers, encoders  
and position signaling cable

item no.	dimension	peak operating voltage	sheath color	outer-Ø mm	copper figure kg/km	cable weight ≈ kg/km
08930001	2 x 2 x 0,15 + 2 x 0,38	30 V	green	6,8 ± 0,3	46,9	62
08930002	2 x 2 x 0,20 + 2 x 0,38	30 V	green	6,8 ± 0,3	34,9	57
08930003	5 x 2 x 0,25 + 2 x 0,50	300 V	green	8,1 ± 0,3	57,3	85
08930004	(2x0,14) C + 6 x 2 x 0,14 + 2 x 0,50	300 V	green	8,8 ± 0,3	64,2	94
08930005	3 x 2 x 0,14 + 2 x 0,38	30 V	green	7,0 ± 0,3	49,6	67
08930006	4 x 2 x 0,14 + 4 x 0,50	300 V	green	8,5 ± 0,3	56,9	104
08930007	4 x 2 x 0,25 + 2 x 0,50	300 V	orange	8,8 ± 0,3	54,7	93
08930008	4 x 2 x 0,25 + 2 x 1,0	300 V	orange	8,2 ± 0,3	63,4	93
08930009	4 x 2 x 0,38 + 4 x 0,50	30 V	green	8,9 ± 0,3	71,8	106
08930010	3 x (2x0,14) D + 4 x 0,14 + 4 x 0,22 + 2 x 0,50	30 V	green	9,6 ± 0,3	72,1	108

Other dimensions and colours are possible on request.

Note: DESINA® is a registered trademark of the German Machine Tool Builders' Association.