

# Servo Motor Cables

## SL 875 C

low capacity PUR hybrid motor connection cable with overall copper screen 0.6/1 kV

for all-in-one  
cable systems

SAB Servo

20910 80°C CSA AWM I/II A/B 80°C 300V FT1 FT2 CE



marking example:

SAB BRÜCKSKES · D-VIERSEN · 08750105 SL 875 C 4G1,5mm<sup>2</sup> (1000V) + (2x1,0mm<sup>2</sup>)C (1000V) + (2x22AWG)C (1000V)

DESINA AWM Style 20910 80°C CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

### Construction:

**Conductor:** bare copper strands  
acc. to IEC 60228, VDE 0295, class 6  
< 0,50 mm<sup>2</sup> with reference to VDE 0812

**Insulation:** special polymer

**Colour code:** item 087501 . . .  
supply cores: black cores with printing  
core 1: U/L1/C/L+  
core 2: V/L2  
core 3: W/L3/D/L-  
and a green-yellow earth wire  
control cores: black cores with number 5+6  
feedback: white, blue  
item 087505 . . .  
supply cores:  
black, blue, brown, green-yellow  
control cores: white-blue, white-green  
feedback: white-green, brown-green +  
grey, pink, yellow, violet

**Stranding:** control cores pairwise,  
item 087501 . . .  
feedbackcores pairwise  
item 087505 . . .  
feedbackcores 0.09 mm<sup>2</sup> pairwise  
pairs with cores 0.24 mm<sup>2</sup>  
in layers optimally stranded

**Wrapping:** non-woven tape resp. foil

**Screen:** elements with tinned copper braiding  
item 087501 . . .  
feedbackcores additional alu foil

**Wrapping:** non-woven tape resp. foil

**Stranding:** screened elements and supply cores  
in layers optimally stranded

**Wrapping:** non-woven tape

**Sheath material:** TMPU acc. to EN 50363-10-2 +  
VDE 0207-363-10-2 with mat surface

**Sheath colour:** orange (RAL 2003)

### Technical Data:

**Nominal voltage:** DIN VDE: supply cores U<sub>0</sub>/U<sub>0,6/1</sub> kV

**Peak operating voltage:** DIN VDE: control cores +  
feedback cores max. 500 V

**Voltage:** UL: 1000 V  
CSA: ≥ 0,5 mm<sup>2</sup> 1000 V  
< 0,5 mm<sup>2</sup> 300 V

**Testing voltage:** supply cores core/core 4000 V  
+ control cores core/screen 4000 V  
feedback cores core/core 3000 V  
core/screen 3000 V

**Min. bending radius**  
*fixed laying:* 5 x d  
*flexible application:* 10 x d  
*continuously flexible:* 12 x d

**Radiation resistance:** 5 x 10<sup>7</sup> cJ/kg

**Temperature range** DIN VDE UL/CSA: 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,  
CSA 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“

### Outstanding features:

- » used as all-in-one cable solution in motor feedback systems
- » low capacity construction
- » UL recognized, CSA approval
- » very good EMC characteristics
- » long service life
- » adhesion-free installation
- » suitable for cable tracks
- » halogen-free
- » very good oil resistance
- » PWIS uncritical  
(PWIS = paint-wetting impairment substances)
- » flexible at low temperatures
- » DESINA® colours (see page C/4)

item no.	dimension	outer- ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
<b>acc. to SICK HIPERFACE DSL®</b>				
08750101	4 x 0,50 + (2 x 0,34)C + (2 x 26 AWG)C	9,8	85,2	131
08750102	4 x 0,75 + (2 x 0,34)C + (2 x 26 AWG)C	10,0	95,4	139
08750103	4 x 1,00 + (2 x 0,75)C + (2 x 22 AWG)C	11,8	155,2	199
08750104	4 x 1,50 + (2 x 0,75)C + (2 x 22 AWG)C	12,6	176,5	230
08750105	4 x 1,50 + (2 x 1,00)C + (2 x 22 AWG)C	12,8	181,7	237
08750106	4 x 2,50 + (2 x 1,00)C + (2 x 22 AWG)C	13,9	222,0	286
08750107	4 x 4,00 + (2 x 1,00)C + (2 x 22 AWG)C	15,4	292,8	376
08750108	4 x 6,00 + (2 x 1,00)C + (2 x 22 AWG)C	18,1	414,2	520
08750109	4 x 10,00 + (2 x 1,50)C + (2 x 22 AWG)C	20,0	593,3	715
08750110	4 x 16,00 + (2 x 1,50)C + (2 x 22 AWG)C	24,4	851,9	1055
<b>acc. to HEIDENHAIN HMC6®</b>				
08750501	4 x 0,75 + (2 x 0,34)C + (2 x 0,24 + 2 x 2 x 0,09)C	10,8	122,7	163
08750502	4 x 1,50 + (2 x 0,75)C + (2 x 0,24 + 2 x 2 x 0,09)C	12,1	171,1	219
08750503	4 x 2,50 + (2 x 1,00)C + (2 x 0,24 + 2 x 2 x 0,09)C	13,7	224,0	282
08750504	4 x 4,00 + (2 x 1,00)C + (2 x 0,24 + 2 x 2 x 0,09)C	15,4	288,2	359

Other dimensions and colours are possible on request.



all-in-one cable  
solution in motor  
feedback systems

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