

# Servo Motor Cables

## SL 875 C

low capacity 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 BRÖCKSKES · D-VIERSEN · 08750105 SL 875 C 4G1,5mm² (1000V) + (2x1,0mm²)C (1000V) + (2x22AWG)C (1000V)

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

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, VDE 0295, class 6 < 0,50 mm² with reference to VDE 0812
<b>Insulation:</b>	special polymer
<b>Colour code:</b>	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
<b>Stranding:</b>	control cores pairwise, item 087501 . . feedbackcores pairwise item 087505 . . feedbackcores 0.09 mm² pairwise pairs with cores 0.24 mm² in layers optimally stranded
<b>Wrapping:</b>	non-woven tape resp. foil
<b>Screen:</b>	elements with tinned copper braiding item 087501 . . feedbackcores additional alu foil
<b>Wrapping:</b>	non-woven tape resp. foil
<b>Stranding:</b>	screened elements and supply cores in layers optimally stranded
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 with mat surface
<b>Sheath colour:</b>	orange (RAL 2003)

### Technical Data:

<b>Nominal voltage:</b>	DIN VDE:	supply cores U <sub>0</sub> /U 0,6/1 kV
<b>Peak operating voltage:</b>	DIN VDE:	control cores + feedback cores max. 500 V
<b>Voltage:</b>	UL:	1000 V
	CSA:	≥ 0,5 mm² 1000 V < 0,5 mm² 300 V
<b>Testing voltage:</b>	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**

<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	12 x d

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

<b>Temperature range</b>	DIN VDE	UL/CSA: up to +80 °C
<i>fixed laying:</i>	-50/+90 °C	
<i>flexible application:</i>	-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- ø ±10 % mm	copper figure kg/km	cable weight ≈ kg/km
acc. to SICK HIPERFACE DSL®				
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
acc. to HEIDENHAIN HMC6®				
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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