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

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:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 6 < 0,50 mm² 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 mm² pairwise pairs with cores 0.24 mm² 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 Uo/U 0,6/1 kV
Peak operating voltage:	**DIN VDE:** control cores + feedback cores max. 500 V
Voltage:	**UL:** 1000 V **CSA:** ≥ 0,5 mm² 1000 V < 0,5 mm² 300 V
Testing voltage:	supply cores + control cores feedback cores core/core 4000 V core/screen 4000 V core/core 3000 V core/screen 3000 V
Min. bending radius *fixed laying:* *flexible application:* *continuously flexible:*	 5 x d 10 x d 12 x d
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *fixed laying:* *flexible application:*	**DIN VDE** **UL/CSA:** up to +80 °C -50/+90 °C -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“

Oustanding 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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