

Servo Motor Cables

SL 875 C

TPE/PUR hybrid motor connection cable with overall tinned copper shield,
low capacitance 0.6/1 kV



Marking for SL 875 C 08750105:

SAB BRÖCKSKES · D-VIERSEN · 08750105 SL 875 C 4G1.5 mm² (1000V) + (2 x 1.0 mm²)C (1000V) + (2 x AWG 22)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 < 20 AWG with reference to VDE 0812
Insulation:	special polymer
Color code:	item 087501..
supply conductors:	black conductors with printing conductor 1: U/L1/C/L+ conductor 2: V/L2 conductor 3: W/L3/D/L- and a green/yellow ground pair #1: black numbered 5 & 6 pair #2: white/blue
control feedback pairs:	item 087505..
supply conductors:	black, blue, brown, green/yellow
control pair:	white-blue/white-green
feedback pairs:	white-green/brown-green + gray-pink, yellow-violet
Stranding:	control conductors pairwise, item 0875-01 .. feedback conductors pairwise item 0875-05 .. feedback conductors 0.09 mm ² pairwise pairs with conductors 0.24 mm ² in layers optimally stranded
Wrapping:	non-woven tape resp. foil
Shielding:	elements with tinned copper braid item 0875-01 .. feedback conductors additional Alu-foil
Wrapping:	non-woven tape resp. foil
Stranding:	shielded elements and supply conductors in layers optimally stranded
Wrapping:	non-woven tape
Jacket material:	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 with matte surface
Jacket color:	orange (RAL 2003)

Outstanding features:

- used as all-in-one cable solution for motor feedback systems
- low capacity construction
- very good EMC characteristics
- long service life
- adhesion-free installation
- suitable for cable tracks
- halogen-free
- free from paint wetting impairment substances (PWIS-free)
- flexible at low temperatures
- DESINA® colors (see page G/3)

Technical data:

Nominal voltage:	DIN VDE: supply conductors: U ₀ /U 0.6/1 kV
Peak operating voltage:	DIN VDE: control conductors + feedback conductors: max. 500 V
Voltage UL/CSA:	UL: 1000 V CSA: ≥ 20 AWG 1000 V < 20 AWG 300 V
Testing voltage:	
supply conductors & control conductors:	conductor/conductor: 4000 V conductor/shielding: 4000 V
feedback conductors:	conductor/conductor: 3000 V conductor/shielding: 3000 V
Min. bending radius:	
fixed installation:	5 x O.D.
free movement:	10 x O.D.
for continuous flexing:	12 x O.D.
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range:	DIN VDE UL/CSA: up to +80°C static: -50/+90°C flexible: -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, FT2
Oil resistance:	very good - TMPU 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

item no.	dimensions	nominal outer-ø approx.		cable weight ≈lbs/mft
		inch	mm	
acc. to SICK HIPERFACE DSL®				
▶ 08750101	20 AWG/4c + (22 AWG/2c)C + (26 AWG/2c)C	0.386	9.8	88
▶ 08750102	19 AWG/4c + (22 AWG/2c)C + (26 AWG/2c)C	0.394	10.0	93
▶ 08750103	18 AWG/4c + (19 AWG/2c)C + (22 AWG/2c)C	0.465	11.8	134
▶ 08750104	16 AWG/4c + (19 AWG/2c)C + (22 AWG/2c)C	0.496	12.6	155
▶ 08750105	16 AWG/4c + (18 AWG/2c)C + (22 AWG/2c)C	0.504	12.8	159
▶ 08750106	14 AWG/4c + (18 AWG/2c)C + (22 AWG/2c)C	0.547	13.9	192
▶ 08750107	12 AWG/4c + (18 AWG/2c)C + (22 AWG/2c)C	0.606	15.4	253
▶ 08750108	10 AWG/4c + (18 AWG/2c)C + (22 AWG/2c)C	0.713	18.1	349
▶ 08750109	8 AWG/4c + (16 AWG/2c)C + (22 AWG/2c)C	0.787	20.0	480
▶ 08750110	6 AWG/4c + (16 AWG/2c)C + (22 AWG/2c)C	0.961	24.4	709
acc. to HEIDENHAIN HMC®				
▶ 08750501	19 AWG / 4c + (22 AWG / 2c)C + (24 AWG / 2c + 28 AWG / 2pr)C	0.425	10.8	110
▶ 08750502	16 AWG / 4c + (19 AWG / 2c)C + (24 AWG / 2c + 28 AWG / 2pr)C	0.476	12.1	147
▶ 08750503	14 AWG / 4c + (18 AWG / 2c)C + (24 AWG / 2c + 28 AWG / 2pr)C	0.539	13.7	189
▶ 08750504	12 AWG / 4c + (18 AWG / 2c)C + (24 AWG / 2c + 28 AWG / 2pr)C	0.606	15.4	241

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

Note: SICK HIPERFACE DSL® is a registered trademark of SICK AG. It is only used for comparative purposes.
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