

Motor Connection Cables

SL 875 C

Continuous flex TPE insulated and polyurethane jacketed hybrid motor connection cable with power conductors and control/feedback pairs and overall tinned copper shield, 0.6/1 kV



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



Marking for SL 875 C 8750105:

SAB BRÖCKSKES · D-VIERSEN · 8750105 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: <i>power supply conductors:</i>	item 87501.. 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
<i>control feedback pairs:</i>	pair #1: black numbered 5 & 6 pair #2: white/blue
<i>power supply conductors:</i>	item 87505.. black, blue, brown, green/yellow
<i>control pair:</i>	white-blue/white-green
<i>feedback pairs:</i>	white-green/brown-green + gray-pink, yellow-violet
Stranding:	control conductors pairwise, item 87501.. feedback conductors pairwise item 87505.. 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 87501.. 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 capacitance
- 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:

Peak operating voltage:	DIN VDE: control conductors + feedback conductors: max. 500 V	
Nominal voltage:	DIN VDE: power supply conductors: Uo/U 0.6/1 kV	
Voltage UL/CSA:	UL:	1000 V
	CSA:	≥ 20 AWG 1000 V < 20 AWG 300 V
Testing voltage: <i>power supply conductors & control conductors:</i>	conductor/conductor:	4000 V
	conductor/shielding:	4000 V
<i>feedback conductors:</i>	conductor/conductor:	3000 V
	conductor/shielding:	3000 V
Min. bending radius: <i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
<i>for continuous flexing:</i>	12 x O.D.	
Radiation resistance:	5 x 10 ⁷ cJ/kg	
Temperature range: <i>static:</i>	DIN VDE	UL/CSA: up to +80°C
<i>flexible:</i>	-50/+90°C -40/+90°C	
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1	
Burning characteristics:	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	
Chemical resistance:	good - against acids, alkalines, solvents, hydraulic liquids, etc.	
Weather resistance:	very good	
Approvals:	UR AWM, CSA AWM, CE, RoHS	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

item no.	power supply conductors	control pairs individually shielded	feedback pairs individually shielded	outer-ø ±10% inch	outer-ø ±10% mm	cable weight ≈lbs/mft
acc. to SICK HIPERFACE DSL*						
▶ 8750101	20 AWG/4c	(22 AWG/2pr)C	(26 AWG/2pr)C	0.386	9.8	88
▶ 8750102	19 AWG/4c	(22 AWG/2pr)C	(26 AWG/2pr)C	0.394	10.0	93
▶ 8750103	18 AWG/4c	(19 AWG/2pr)C	(22 AWG/2pr)C	0.465	11.8	134
▶ 8750104	16 AWG/4c	(19 AWG/2pr)C	(22 AWG/2pr)C	0.496	12.6	155
▶ 8750105	16 AWG/4c	(18 AWG/2pr)C	(22 AWG/2pr)C	0.504	12.8	159
▶ 8750106	14 AWG/4c	(18 AWG/2pr)C	(22 AWG/2pr)C	0.547	13.9	192
▶ 8750107	12 AWG/4c	(18 AWG/2pr)C	(22 AWG/2pr)C	0.606	15.4	253
▶ 8750108	10 AWG/4c	(18 AWG/2pr)C	(22 AWG/2pr)C	0.713	18.1	349
▶ 8750109	8 AWG/4c	(16 AWG/2pr)C	(22 AWG/2pr)C	0.787	20.0	480
▶ 8750110	6 AWG/4c	(16 AWG/2pr)C	(22 AWG/2pr)C	0.961	24.4	709
acc. to HEIDENHAIN HMC*						
▶ 8750501	19 AWG / 4c	(22 AWG/2pr)C	(24 AWG/2pr) + 28 AWG / 2pr)C	0.425	10.8	110
▶ 8750502	16 AWG / 4c	(19 AWG/2pr)C	(24 AWG/2pr + 28 AWG/2pr)C	0.476	12.1	147
▶ 8750503	14 AWG / 4c	(18 AWG/2pr)C	(24 AWG/2c + 28 AWG/2pr)C	0.539	13.7	189
▶ 8750504	12 AWG / 4c	(18 AWG/2pr)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. HEIDENHAIN HMC® is a registered trademark of Dr. Johannes Heidenhain GmbH. It is only used for comparative purposes.



all-in-one cable solution in motor feedback systems



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