

Servo Motor Cables

SL 851 C - Exploration

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



marking example:

SAB BRÜCKSKES · D-VIERSEN · SL 851 C - Exploration 4x2,5mm² AWM Style 21223 80°C 1000V cULus AWM I/II A/B 80°C 1000V FT1 FT2 CE

Application: Motor connection cable for the electrical hook-up of drilling equipment, compressors, generators as well as pumps in rough environments.

Construction:

Conductor	bare copper strands acc. to IEC 60228, VDE 0295, class 5
Insulation:	SABIX®
Colour code:	coloured acc. to HD 308 (VDE 0293-308) and a green-yellow earth wire
Screen:	alu foil and tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Sheath colour:	black (RAL 9005)

Outstanding features:

- » UL/cUL recognized
- » extremely large temperature range
- » low surface transfer impedance
- » low mutual capacitance
- » very good oil resistance
- » very good EMC characteristics
- » halogen-free

Technical data:

Nominal voltage:	Uo/U 0.6/1 kV
Voltage UL/cUL:	1000 V
Maximum operating voltage:	in three-phase current and single phase current operation: Uo/U 0.7/1.2 kV in D.C. current operation: Uo/U 0.9/1.8 kV peak value of alternating current: U [^] 1.7 kV
Testing voltage:	core/core 4000 V core/screen 4000 V
Min. bending radius	≤ 12 mm > 12 mm up to ≤ 20 mm > 20 mm
<i>fixed laying:</i>	5 x d 7,5 x d 10 x d
<i>flexible application:</i>	10 x d 15 x d 20 x d
Temperature range	DIN VDE UL/cUL: up to +80 °C
<i>fixed laying:</i>	-50/+90 °C
<i>flexible application*:</i>	-45/+90 °C
Cold resistance:	-50°C acc. to DIN EN 60811-506
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, cUL FT1, FT2
Oil resistance:	very good - TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
MUD resistance:	very good - acc. to IEC 60092-360, IEC 61892-4, NEK TS 606
Sunlight resistance:	acc. to HD 605
Ozone resistance:	acc. to DIN EN 50396
Saltwater resistance:	acc. to UL 1309
Absence of harmful substances:	acc. to RoHS directive of the European Union, see chapter N „Technical data“

*protected installation

item no.	no. of cores x cross section n x mm²	AWG	largest single core ø mm	outer-ø ± 10 % mm	copper figure kg/km	cable weight ≈ kg/km
08510425	4 x 2,50	14/4c	0,26	10,0	124,5	168
08510440	4 x 4,00	12/4c	0,31	12,3	206,6	265
08510460	4 x 6,00	10/4c	0,31	14,0	315,9	386
08510470	4 x 10,00	8/4c	0,41	17,0	494,6	633
08510480	4 x 16,00	6/4c	0,41	22,1	753,6	931
08510490	4 x 25,00	4/4c	0,41	25,9	410,3	705
08510495	4 x 35,00	2/4c	0,41	29,8	1522,8	1810
08510496	4 x 50,00	1/4c	0,41	33,3	2110,1	2486
08510498	4 x 70,00	2/0/4c	0,41	39,7	2897,9	3452

Other dimensions and colours are possible on request.

small shielding capacitances
for your frequency-controlled drives and
motors (VFD) U[^] 1.7 kV