

Cables for high mechanical Stress

SL 851 C - Exploration

Motor connection cable with overall copper screen 0.6/1 kV

0.6/1 kV



Marking for SL 851 C - Exploration 08510425:

SAB BRÖCKSKES · 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)

Technical data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Voltage UL/cUL:	1000 V
Maximum operating voltage:	<i>in three-phase current and single phase current operation:</i> U ₀ /U 0,7/1,2 kV <i>in D.C. current operation:</i> U ₀ /U 0,9/1,8 kV <i>peak value of alternating current:</i> 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
Salt water resistance:	acc. to UL 1309
Absence of harmful substances:	acc. to RoHS directive of the European Union, see chapter N „Technical data“

*protected installation

Outstanding features:



- UL/cUL recognized
- extremely large temperature range
- low surface transfer impedance
- low mutual capacitance
- very good EMC characteristics

item no.	no. of cores x cross section n x mm ²	AWG	largest single wire 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.



for DNC motors
on frequency converters
U[^] 1,7 kV