

Special Cables for High Mechanical Stress

SAB 755 - Exploration

Highly flexible PUR control and power supply cable



Marking for SAB 755 - Exploration 7550715:

SAB BRÖCKSKES · D-VIERSEN · SAB 755-Exploration 7x1.5mm² cULus AWM Style 21233 80°C 1000V AWM I/II A/B 80°C 1000V FT1 FT2 755-0715 CE

Application: Halogen-free, shielded connection and control cable applied for drilling equipment, compressors or pumps in especially rough and wet environments of machine tools and production lines.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 5
Insulation:	SABIX®
Color code:	colored acc. to HD 308 (VDE 0293-308), see page O/26 from 5 conductors: black with consecutive numbers acc. to EN 50334 + VDE 0293-334; and a green/yellow ground
Shielding:	tinned copper braiding
Supporting screen:	high-tech yarn
Jacket material:	PUR, TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Jacket color:	black (RAL 9005)

Outstanding features:

- UL/cUL recognized
- extremely large temperature range
- small outer diameter
- lighter cable weight
- application in Topside drilling loop

Technical data:

Nominal voltage:	Uo/U 0.6/1 kV	
Voltage UL/cUL:	1000 V	
Testing voltage:	conductor/conductor:	4000 V
	conductor/shielding:	4000 V
Current-carrying capacity:	acc. to VDE 0298-4	
Min. bending radius:		
<i>fixed installation:</i>	6 x O.D.	
<i>flexible application:</i>	15 x O.D.	
Temperature range:	DIN VDE	UL/cUL: up to +80°C
<i>static:</i>	-50/+90°C	
<i>flexible:</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	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2 cUL FT1 FT2	
Oil resistance:	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2	
MUD resistance:	very good - acc. to IEC 60992-360, IEC 61892-4 NEK TS 606	
Tensile strength:	max. 20 N/mm²	
Sunlight resistance:	acc. to HD 605	
Ozone resistance:	acc. to DIN EN 50396	
Salt water resistance:	acc. to UL 1309	
Approvals:	UR AWM, cUR AWM, CE, EAC, RoHS	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 16 AWG ▪ 1.50 mm²				
7550715	7	0.445	11.3	140
7551215	12	0.520	13.2	194
7551515	15	0.598	15.2	260
7551815	18	0.626	15.9	293
7552515	25	0.748	19.0	386
▶ 14 AWG ▪ 2.50 mm²				
7550525	5	0.433	11.0	148
7550725	7	0.512	13.0	198
7551225	12	0.622	15.8	304
▶ 12 AWG ▪ 4.00 mm²				
7550340	3	0.437	11.1	136
7550440	4	0.480	12.2	182
7550540	5	0.524	13.3	216
▶ 10 AWG ▪ 6.00 mm²				
7550360	3	0.520	13.2	205
7550460	4	0.563	14.3	260
7550560	5	0.618	15.7	316
▶ 8 AWG ▪ 10.00 mm²				
7550361	3	0.630	16.0	323
7550461	4	0.654	16.6	377
7550561	5	0.752	19.1	480

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 6 AWG ▪ 16.00 mm²				
7550362	3	0.768	19.5	466
7550462	4	0.835	21.2	577
7550562	5	0.921	23.4	713
▶ 4 AWG ▪ 25.00 mm²				
7550363	3	0.902	22.9	683
7550463	4	0.984	25.0	857
7550563	5	1.087	27.6	1054
▶ 2 AWG ▪ 35.00 mm²				
7550164	1	0.610	15.5	314
7550364	3	1.035	26.3	958
7550464	4	1.134	28.8	1185
7550564	5	1.232	31.3	1451
▶ 1 AWG ▪ 50.00 mm²				
7550165	1	0.681	17.3	434
7550365	3	1.154	29.3	1299
7550465	4	1.268	32.2	1641
7550565	5	1.398	35.5	2020

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 2/0 AWG ▪ 70.00 mm²				
7550166	1	0.780	19.8	579
▶ 3/0 AWG ▪ 95.00 mm²				
7550167	1	0.909	23.1	792
▶ 4/0 AWG ▪ 120.00 mm²				
7550168	1	0.969	24.6	954
▶ 250 MCM ▪ 150.00 mm²				
7550169	1	1.063	27.0	1174
▶ 350 MCM ▪ 185.00 mm²				
7550170	1	1.142	29.0	1396
▶ 450 MCM ▪ 240.00 mm²				
7550171	1	1.350	34.3	1885
▶ 550 MCM ▪ 300.00 mm²				
7550172	1	1.476	37.5	2315

Other dimensions and colors are available on request



Hybrid cable on request!



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