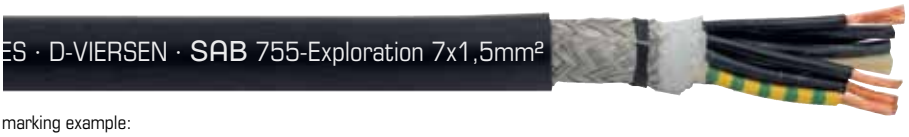
Cables for high mechanical Stress

SAB 755 - Exploration

robust and highly flexible control and power supply cable



marking example:
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 0755-0715 CE

Application: Halogen-free, screened 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®
Colour code:	coloured acc. to HD 308 (VDE 0293-308), from 5 cores black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334 and a green-yellow earth wire
Screen:	tinned copper braiding
Supporting screen:	high-tech yarn
Sheath material:	PUR, TMPU 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
- small outer diameter
- small cable weight
- application in Topside Drilling-Loop

Technical data:

Nominal voltage:	Uo/U 0,6/1 kV
Voltage UL/cUL:	1000 V
Testing voltage:	core/core 4000 V core/screen 4000 V
Current-carrying capacity:	acc. to VDE 0298-4
Min. bending radius *fixed laying:* *flexible application:*	 6 x d 15 x d
Temperature range *fixed laying:* *flexible application*:*	DIN VDE UL/cUL: up to +80°C -50/+90 °C -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 - TMPU 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
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
Absence of harmful substances:	acc. to RoHS directive of the European Union, see chapter N „Technical data“

*protected installation in tubes with slow, occasional movements

Hybrid cable on request!

item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
07550715	7 x 1,50	0,26	11,3	149,0	208
07551215	12 x 1,50	0,26	13,2	232,5	288
07551515	15 x 1,50	0,26	15,2	313,0	387
07551815	18 x 1,50	0,26	15,9	356,9	436
07552515	25 x 1,50	0,26	19,0	472,0	575
07550525	5 x 2,50	0,26	11,0	179,5	221
07550725	7 x 2,50	0,26	13,0	228,9	295
07551225	12 x 2,50	0,26	15,8	396,5	452
07550340	3 x 4,00	0,31	11,1	136,5	203
07550440	4 x 4,00	0,31	12,2	207,6	271
07550540	5 x 4,00	0,31	13,3	245,6	321
07550360	3 x 6,00	0,31	13,2	221,2	305
07550460	4 x 6,00	0,31	14,3	278,3	387
07550560	5 x 6,00	0,31	15,7	374,3	471
07550361	3 x 10,0	0,41	16,0	374,6	480
07550461	4 x 10,0	0,41	16,6	471,9	561
07550561	5 x 10,0	0,41	19,1	569,7	714
07550362	3 x 16,0	0,41	19,5	551,0	694
07550462	4 x 16,0	0,41	21,2	706,6	859

item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
07550562	5 x 16,0	0,41	23,4	863,0	1061
07550363	3 x 25,0	0,41	22,9	813,8	1016
07550463	4 x 25,0	0,41	25,0	1056,6	1275
07550563	5 x 25,0	0,41	27,6	1300,3	1569
07550364	3 x 35,0	0,41	26,3	1106,4	1426
07550464	4 x 35,0	0,41	28,8	1455,1	1764
07550564	5 x 35,0	0,41	31,3	1797,8	2160
07550365	3 x 50,0	0,41	29,3	1551,3	1934
07550465	4 x 50,0	0,41	32,2	2037,3	2443
07550565	5 x 50,0	0,41	35,5	2531,9	3007
07550164	1 x 35,0	0,41	15,5	421,8	467
07550165	1 x 50,0	0,41	17,3	577,9	646
07550166	1 x 70,0	0,41	19,8	784,0	862
07550167	1 x 95,0	0,51	23,1	1051,5	1179
07550168	1 x 120,0	0,51	24,6	1318,2	1420
07550169	1 x 150,0	0,51	27,0	1611,0	1748
07550170	1 x 185,0	0,51	29,0	1952,1	2077
07550171	1 x 240,0	0,51	34,3	2493,2	2805
07550172	1 x 300,0	0,51	37,5	3077,6	3445

Other dimensions and colours are possible on request.