

# Cables for high mechanical Stress

## SAB S 745 - Exploration

continuously flexible control cable, robust and oil resistant

ES · D-VIERSEN · SAB S 745 - Exploration 18x1,5mm<sup>2</sup>



marking example:

SAB BRÜCKSKES · D-VIERSEN · SAB S 745 - Exploration 18x1,5mm<sup>2</sup> cULus AWM Style 21233 80°C 1000V AWM I/II A/B 80°C 1000V FT1 FT2 0745-0715 CE

**Application:** Halogen-free, screened control cable for continuous flexible use in cable chains in rough environments for example drilling equipment or wet areas of machine tools and production lines. Appropriate for outdoor and indoor areas.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, VDE 0295, class 6
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334, and a green-yellow earth wire
<b>Inner Sheath:</b>	SABIX® (only for multi-core cables)
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
<b>Sheath colour:</b>	black (RAL 9005)

### Outstanding features:

- » UL/cUL recognized
- » extremely large temperature range
- » small outer diameter
- » small cable weight
- » long travels possible
- » very good EMC characteristics

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Voltage UL/cUL:</b>	600 V
<b>Testing voltage:</b>	core/core 2000 V core/screen 2000 V
<b>Min. bending radius continuously flexible:</b>	10 x d
<b>Temperature range</b>	DIN VDE UL/cUL: up to +80°C
<b>fixed laying:</b>	-50/+90 °C
<b>flexible application*:</b>	-45/+90 °C
<b>Cold resistance:</b>	-50°C acc. to DIN EN 60811-506
<b>Halogen-free:</b>	acc. to IEC 60754-1 + VDE 0482-754-1
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, cUL FT1 FT2
<b>Oil resistance:</b>	very good - TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
<b>MUD resistance:</b>	very good - acc. to IEC 60092-360, IEC 61892-4, NEK TS 606
<b>Sunlight resistance:</b>	acc. to HD 605
<b>Ozone resistance:</b>	acc. to DIN EN 50396
<b>Salt water resistance:</b>	acc. to UL 1309
<b>Absence of harmful substances:</b>	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 mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
07450315	3 x 1,50	0,16	7,8	66,8	97
07450515	5 x 1,50	0,16	9,1	96,1	136
07451815	18 x 1,50	0,16	15,5	287,9	402
07452515	25 x 1,50	0,16	19,0	469,8	608
07450325	3 x 2,50	0,16	10,1	102,3	157
07450525	5 x 2,50	0,16	11,3	171,0	233
07451825	18 x 2,50	0,16	26,2	542,7	702
07452525	25 x 2,50	0,16	24,9	744,7	989
07450440	4 x 4,00	0,16	12,5	202,3	271
07450160	1 x 6,00	0,21	6,4	75,2	88
07450460	4 x 6,00	0,21	15,3	327,9	423
07450161	1 x 10,0	0,21	7,4	117,3	135
07450162	1 x 16,0	0,21	8,6	179,8	198
07450462	4 x 16,0	0,21	22,3	743,0	977
07450163	1 x 25,0	0,21	10,6	287,6	304
07450165	1 x 50,0	0,31	14,7	576,9	605

Other dimensions and colours are possible on request.

Hybrid cable on request!