

Highly dynamic cables

SABdynamic 900 Control

continuously flexible SABIX®/PUR control cable, robust, oil resistant and flame retardant with numbered cores

low capacity

SABFlex



Marking example:

SAB BRÜCKSKES · D-VIERSEN · SABdynamic 900 Control 25G1,0mm² cULus AWM Style 21209 AWM I/II A/B 90°C 600V FT1 FT2 0900-2510 CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, Klasse 6
Insulation:	SABIX®
Colour code:	black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334, green-yellow earth wire from 3 cores
Stranding:	specially adjusted layering with non-woven tape over each layer
Sheath material:	PUR with mat surface
Sheath colour:	black (RAL 9005)

Outstanding features:

- » cULus recognized
- » PWIS uncritical
(PWIS = paint-wetting impairment substances)
- » low capacity
- » extremely large temperature range
- » halogen-free
- » high abrasion resistance
- » suitable for long travel
- » small bending radius
- » small outer diameter
- » PFAS free

Technical Data:

Nominal voltage:	U ₀ /U 300/500 V	
Voltage cULus:	600 V	
Testing voltage:	core/core 2000 V	
Min. bending radius		
fixed laying:	3 x d	
flexible application:	7,5 x d	
bending cycles:	> 10 million	
Temperature range	DIN VDE	cULus: up to +90 °C
fixed laying:	-50/+90 °C	
flexible application:	-40/+90 °C	
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, cULus FT1, FT2	
Oil resistance:	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2	
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.	
Continuous Flexibility:	very good	
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“	

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
09000305	3 x 0,50	0,16	4,9	14,4	33
09002505	25 x 0,50	0,16	11,5	120,0	200
09003605	36 x 0,50	0,16	12,9	172,8	276
09000407	4 x 0,75	0,16	5,8	28,8	49
09000507	5 x 0,75	0,16	6,3	36,0	60
09000707	7 x 0,75	0,16	7,4	50,4	82
09001207	12 x 0,75	0,16	8,9	86,4	121
09001807	18 x 0,75	0,16	10,8	129,6	186
09002507	25 x 0,75	0,16	12,8	180,0	246
09000210	2 x 1,00	0,16	5,5	19,2	40
09000410	4 x 1,00	0,16	6,3	38,4	62
09000710	7 x 1,00	0,16	8,0	67,2	105
09001210	12 x 1,00	0,16	10,1	115,2	163
09001810	18 x 1,00	0,16	11,8	172,8	239
09002510	25 x 1,00	0,16	14,0	240,0	316
09003010	30 x 1,00	0,16	14,5	288,0	370

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
09003610	36 x 1,00	0,16	16,1	345,6	451
09000215	2 x 1,50	0,16	6,1	28,8	52
09000315	3 x 1,50	0,16	6,4	43,2	66
09000415	4 x 1,50	0,16	7,1	57,6	84
09000515	5 x 1,50	0,16	7,7	72,0	103
09000715	7 x 1,50	0,16	9,1	100,8	146
09001215	12 x 1,50	0,16	11,3	172,8	227
09001815	18 x 1,50	0,16	13,3	259,2	331
09002515	25 x 1,50	0,16	16,2	360,0	451
09003615	36 x 1,50	0,16	18,5	518,4	645
09000225	2 x 2,50	0,16	7,3	48,0	80
09000325	3 x 2,50	0,16	7,7	72,0	101
09000425	4 x 2,50	0,16	8,5	96,0	130
09000525	5 x 2,50	0,16	9,3	120,0	160
09000560	5 x 6,00	0,21	13,5	288,0	356

Other dimensions and colours are possible on request.