

Highly dynamic cables

SABdynamic 900 Control

continuously flexible PUR control cable, robust, oil resistant and flame retardant

low capacity

SABFlex



Marking example:

SAB BRÜCKSKES · D-VIERSEN · SABdynamic 900 Control 25G1,0mm² cULus AWM Style 21223 AWM I/II A/B 80°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 +80 °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, cUL 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
multi-core cable unscreened					
09000210	2 x 1,00	0,16	5,3	19,2	37
09002510	25 x 1,00	0,16	13,8	240,0	307
09000315	3 x 1,50	0,16	6,2	43,2	64
09000525	5 x 2,50	0,16	9,3	120,0	160

Other dimensions and colours are possible on request.

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
multi-core cable with overall copper screen					
09012510	25 x 1,00	0,16	14,3	336,9	377

Other dimensions and colours are possible on request.