

Highly dynamic cables

SABdynamic 910 Control C

continuously flexible SABIX®/PUR control cable, suitable for robots,
robust, oil resistant and flame retardant with numbered cores and overall copper screen

low capacity

SABFlex



Marking example:

SAB BRÖCKSKES · D-VIERSEN · SABdynamic 910 Control 15G1,5mm² cULus AWM Style 21223 AWM I/II A/B 80°C 600V FT1 FT2 0911-1515 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, from 15 cores twisted to bundles
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	PUR with mat surface
Sheath colour:	black (RAL 9005)

Outstanding features:

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

Technical Data:

Nominal voltage:	U ₀ /U 300/500 V	
Voltage cULus:	600 V	
Testing voltage:	core/core	2000 V
	core/screen	2000 V
torsion cycles:	up to ± 180°/m > 10 million	
	up to ± 360°/m > 5 million	
Min. bending radius		
<i>fixed laying:</i>	3 x d	
<i>flexible application:</i>	≤ 5 m	7,5 x d
	> 5 m	10 x d
<i>bending cycles:</i>	> 10 million	
Temperature range	DIN VDE	cULus: up to +80 °C
<i>fixed laying:</i>	-50/+90 °C	
<i>flexible application:</i>	-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
09110707	7 x 0,75	0,16	7,7	68,2	96
09110215	2 x 1,50	0,16	6,2	42,3	61
09110315	3 x 1,50	0,16	6,5	57,6	76
09111515	15 x 1,50	0,16	16,3	296,2	403

Other dimensions and colours are possible on request.