

Dynamic Cables

SABdynamic 910 Data

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



Marking example:

SAB BRÖCKSKES · D-VIERSEN · SABdynamic 910 Data 12x0,14mm² cULus AWM Style 20233 AWM I/II A/B 80°C 300V FT1 FT2 0910-1201 CE

Construction:

Conductor:	bare copper strands with reference to IEC 60228, VDE 0295, class 6
Insulation:	SABIX®
Colour code:	with reference to DIN 47100
Stranding:	specially adjusted layering with non-woven tape over each layer, from 23 cores twisted to pairs
Sheath material:	PUR with mat surface
Sheath colour:	black (RAL 9005)

Outstanding features:

- » UL/cUL recognized
- » PWIS uncritical
(PWIS = paint-wetting impairment substances)
- » suitable for robots
- » extremely large temperature range
- » halogen-free
- » high abrasion resistance
- » suitable for long travel
- » small bending radius
- » small outer diameter

Technical Data:

Peak operating voltage:	max. 350 V
Voltage UL/cUL:	300 V
Testing voltage:	core/core 2000 V
torsion cycles:	up to ± 180°/m > 10 million up to ± 360°/m > 5 million
Min. bending radius	
fixed laying:	3 x d
flexible application:	≤ 5 m 7,5 x d > 5 m 10 x d > 10 million
bending cycles:	
Temperature range	DIN VDE UL/cUL: 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					
09011201	12 x 0,14	0,11	5,5	15,6	36

Other dimensions and colours are possible on request.

item no.	no. of pairs x cross section n x 2 x mm ²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
multi-pair cable unscreened					
09102401	12 x 2 x 0,14	0,11	7,9	31,2	65

Other dimensions and colours are possible on request.

item no.	no. of pairs x cross section n x 2 x mm ²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
multi-pair cable screened					
09110601	6 x 2 x 0,14	0,11	6,3	30,0	52

Other dimensions and colours are possible on request.