

# Highly dynamic cables

## SABdynamic 900 Data C TP

continuously flexible paired SABIX®/PUR data cable,  
robust, oil resistant and flame retardant with coloured cores and overall copper screen

low capacity

SABFlex



Marking example:

SAB BRÜCKSKES · D-VIERSEN · SABdynamic 900 Data 3x2x0,34mm<sup>2</sup> cULus AWM Style 20233 AWM I/II A/B 80°C 300V FT1 FT2 0901-0303 CE

### Construction:

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

### Technical Data:

<b>Peak operating voltage:</b>	max. 350 V	
<b>Voltage cULus:</b>	300 V	
<b>Testing voltage:</b>	core/core	2000 V
	core/screen	2000 V
<b>Min. bending radius</b>		
<i>fixed laying:</i>	3 x d	
<i>flexible application:</i>	7,5 x d	
<i>bending cycles:</i>	> 10 million	
<b>Temperature range</b>	DIN VDE	cULus: up to +80 °C
<i>fixed laying:</i>	-50/+90 °C	
<i>flexible application:</i>	-40/+90 °C	
<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, cULus FT1, FT2	
<b>Oil resistance:</b>	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2	
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.	
<b>Continuous Flexibility:</b>	very good	
<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“	

### 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
- » good EMC characteristics
- » good transmission rates and crosstalk attenuation
- » PFAS free

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
09010201	2 x 2 x 0,14	0,11	4,8	19,1	30
09010401	4 x 2 x 0,14	0,11	5,8	26,3	40
09010202	2 x 2 x 0,25	0,11	5,4	23,6	37
09010402	4 x 2 x 0,25	0,11	6,7	36,9	55
09010602	6 x 2 x 0,25	0,11	7,1	48,5	70
09010203	2 x 2 x 0,34	0,11	5,7	27,3	42
09010303	3 x 2 x 0,34	0,11	6,2	35,9	52
09010403	4 x 2 x 0,34	0,11	7,2	46,1	64
09010250	2 x 2 x 0,50	0,16	6,7	36,9	59
09010350	3 x 2 x 0,50	0,16	7,4	50,1	82
09010450	4 x 2 x 0,50	0,16	8,4	62,2	93

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
09010550	5 x 2 x 0,50	0,16	9,1	74,3	114
09010650	5 x 2 x 0,50	0,16	9,4	86,6	128
09010850	8 x 2 x 0,50	0,16	11,7	131,1	198
09011050	10 x 2 x 0,50	0,16	11,6	150,3	203
09010275	2 x 2 x 0,75	0,16	7,3	48,6	70
09010375	3 x 2 x 0,75	0,16	8,1	66,9	90
09010475	4 x 2 x 0,75	0,16	9,2	86,6	113
09010675	6 x 2 x 0,75	0,16	10,5	134,1	178
09010480	4 x 2 x 1,00	0,16	9,7	106	129
09010680	6 x 2 x 1,00	0,16	11,4	169,2	221
09010685	6 x 2 x 1,50	0,16	12,8	232,5	423

Other dimensions and colours are possible on request.