

# Highly dynamic cables

## SABdynamic 905 Control

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

low capacity

SABFlex



Marking example:

SAB BRÜCKSKES · D-VIERSEN · SABdynamic 905 Control 24G1,5mm<sup>2</sup> cULus AWM Style 21223 AWM I/II A/B 80°C 1000V FT1 FT2 0904-2415 CE

### Construction:

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

<b>Nominal voltage:</b>	U <sub>0</sub> /U 0,6/1 kV	
<b>Voltage cULus:</b>	1000 V	
<b>Testing voltage:</b>	core/core 4000 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“	

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
09040115	1 x 1,50	0,16	4,1	14,4	26
09040415	4 x 1,50	0,16	7,5	57,6	89
09041215	12 x 1,50	0,16	12,2	172,8	239
09041815	18 x 1,50	0,16	14,7	259,2	361
09042415	24 x 1,50	0,16	17,2	345,6	470
09040125	1 x 2,50	0,16	4,8	24,0	38
09040425	4 x 2,50	0,16	9,3	96,0	139
09040525	5 x 2,50	0,16	10,6	120,0	179
09040725	7 x 2,50	0,16	12,3	168,0	254
09041225	12 x 2,50	0,16	15,7	288,0	394
09041825	18 x 2,50	0,16	18,4	432,0	578
09042425	24 x 2,50	0,16	22,1	576,0	768
09040140	1 x 4,00	0,16	5,5	38,4	55
09040440	4 x 4,00	0,16	11,2	153,6	216
09040540	5 x 4,00	0,16	12,4	192,0	270
09040160	1 x 6,00	0,21	6,4	57,6	77
09040460	4 x 6,00	0,21	13,5	230,4	309
09040560	5 x 6,00	0,21	15,3	288,0	404

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
09040161	1 x 10,0	0,21	8,5	96,0	125
09040461	4 x 10,0	0,21	15,8	384,0	490
09040561	5 x 10,0	0,21	17,9	480,0	619
09040162	1 x 16,0	0,21	8,7	153,6	180
09040462	4 x 16,0	0,21	19,9	614,4	774
09040562	5 x 16,0	0,21	22,3	768,0	985
09040163	1 x 25,0	0,21	10,3	240,0	270
09040463	4 x 25,0	0,21	23,2	960,0	1129
09040164	1 x 35,0	0,21	11,9	336,0	374
09040464	4 x 35,0	0,21	27,2	1344,0	1586
09040165	1 x 50,0	0,31	13,8	480,0	531
09040465	4 x 50,0	0,31	32,6	1920,0	2295
09040466	4 x 70,0	0,31	38,2	2688,0	3151
09040166	1 x 70,0	0,31	16,6	672,0	750
09040167	1 x 95,0	0,31	19,5	912,0	1005
09040168	1 x 120,0	0,31	21,7	1152,0	1268
09040169	1 x 150,0	0,31	24,5	1440,0	1604
09040170	1 x 185,0	0,41	26,8	1776,0	1955

Other dimensions and colours are possible on request.