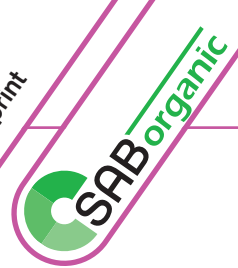


# Continuous Flex Cables for Track

## SABorganic S 1000 Control

ECO-friendly extremely flexible SABIX®/PUR control cable with numbered conductors for continuous movement, available unshielded or shielded

reduced  
carbon footprint



SABorganic S 1000 Control 12x1.5mm<sup>2</sup> 27740315 CE



Marking for SABorganic S 1000 Control 27740315:

SAB BRÖCKSKES · D-VIERSEN · SABorganic S 1000 Control 3x1.5mm<sup>2</sup> 27740315 CE

**Application:** The control cable SABorganic S 1000 Control is suitable for cable tracks and equipped with an outer jacket made of bio-based PUR material that is mainly obtained from sustainable resources. This reduces the carbon footprint by 25% compared to conventional jacket types. SABorganic S 1000 Control cable is particularly suitable for use in cable track and moveable machine parts. The halogen-free and flame-retardant characteristics of the new jacket material reduce potential fire hazards. SABorganic S 1000 Control cable is also resistant against mineral oil-based lubricants and many chemicals.

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41

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, VDE 0295, class 6
<b>Insulation:</b>	SABIX®
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
<b>Stranding:</b>	specially adjusted layering with non-woven tape over each layer
<b>Wrapping:</b>	non-woven tape
<b>Shielding:</b>	tinned copper braiding
<b>Jacket material:</b>	PUR, TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 with matte surface
<b>Jacket color:</b>	gray (RAL 7000)

### Outstanding features:

- reduced carbon footprint
- low capacity construction
- sustainable plastic materials
- free from paint wetting impairment substances (PWIS-free)
- flexible at low temperatures
- halogen-free
- flame retardant and self-extinguishing
- travel > 10 m is possible
- high abrasion resistance
- small bending radius
- small outer diameter

### Technical data:

<b>Nominal voltage:</b>	Uo/U 300/500 V
<b>Testing voltage:</b>	conductor/conductor: 1500 V conductor/shielding: 1200 V
<b>Torsion angle:</b>	± 60°/1 m
<b>Min. bending radius:</b>	3.0 x O.D. 7.5 x O.D.
<b>Temperature range:</b>	static: -50/+90°C flexing: -40/+90°C short-term use: +125°C (up to 2000h)
<b>Halogen-free:</b>	acc. to IEC 60754-1 + VDE 0482-754-1
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
<b>Oil resistance:</b>	very good TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
<b>Chemical 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 page O/30

item no.	no. of conductors incl. ground	outer-ø inch ±5%	outer-ø mm ±5%	cable weight ≈lbs/mft
<b>multi-conductor cable unshielded</b>				
▶ 20 AWG (≈ 28/34) ▪ 0.50 mm <sup>2</sup>				
27740505	5	0.213	5.4	28
27740705	7	0.252	6.4	40
27741205	12	0.299	7.6	58
27741805	18	0.354	9.0	84
27742505	25	0.433	11.0	116
▶ 18 AWG (≈ 56/34) ▪ 1.00 mm <sup>2</sup>				
27741210	12	0.358	9.1	99
27741810	18	0.433	11.0	152
▶ 16 AWG (≈ 84/34) ▪ 1.50 mm <sup>2</sup>				
27740315	3	0.236	6.0	42
27740515	5	0.287	7.3	67
▶ 8 AWG (≈ 320/32) ▪ 10.00 mm <sup>2</sup>				
27740361	3	0.535	13.6	265

Other dimensions and colors are available on request

item no.	no. of conductors incl. ground	outer-ø inch ±5%	outer-ø mm ±5%	cable weight ≈lbs/mft
<b>multi-conductor cable shielded</b>				
▶ 20 AWG (≈ 28/34) ▪ 0.50 mm <sup>2</sup>				
27841205	12	0.319	8.1	69
▶ 19 AWG (≈ 42/34) ▪ 0.75 mm <sup>2</sup>				
27840707	7	0.303	7.7	66
▶ 18 AWG (≈ 56/34) ▪ 1.00 mm <sup>2</sup>				
27842510	25	0.579	14.7	258
▶ 16 AWG (≈ 84/34) ▪ 1.50 mm <sup>2</sup>				
27840315	3	0.256	6.5	52
▶ 14 AWG (≈ 140/34) ▪ 2.50 mm <sup>2</sup>				
27840325	3	0.315	8.0	79

Other dimensions and colors are available on request