

# Highly dynamic cables

## SABorganic S 1000 Data

extremely flexible SABIX®/PUR data cable  
with coloured cores for continuous movement

reduced  
carbon footprint



SABorganic S 1000 Data 25x0,14mm<sup>2</sup> 27892501 €€



marking example:

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

### Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	SABIX®
Colour code:	with reference to DIN 47100
Stranding:	specialy adjusted layering with non-woven tape over each layer
Wrapping:	non-woven tape
Sheath material:	PUR, TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 with mat surface
Sheath colour:	grey (RAL 7000)

### Outstanding features:

- » reduced carbon footprint
- » low capacity
- » sustainable plastic materials
- » PWIS uncritical  
(PWIS = paint-wetting impairment substances)
- » 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
- » PFAS free

### Technical Data:

Peak operating voltage:	max. 350 V
Testing voltage:	core/core 1500 V core/screen 1200 V
Torsion angle:	± 60°/1 m
Min. bending radius	
fixed laying:	3 x d
flexible application:	7,5 x d
Temperature range	
fixed laying:	-50/+90 °C
flexible application:	-40/+90 °C
limited time of use:	+125 °C (up to 2000h)
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
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 <sup>2</sup>	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
<b>multi-core cable unscreened</b>					
27740402	4 x 0,25	0,11	3,6	9,6	18
27740702	7 x 0,25	0,11	4,6	16,8	31
27740403	4 x 0,34	0,11	3,9	13,2	22

Other dimensions and colours are possible on request.

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
<b>multi-core cable with overall copper screen</b>					
27841201	12 x 0,14	0,11	5,4	31,6	43
27840402	4 x 0,25	0,11	4,1	20,0	27
27840502	5 x 0,25	0,11	4,5	25,9	34
27841803	18 x 0,34	0,11	7,7	83,1	101
27840550	5 x 0,50	0,16	5,5	40,0	51
27840475	4 x 0,75	0,16	6,2	46,4	62

Other dimensions and colours are possible on request.

item no.	no. of pairs x cross section n x 2 x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
<b>multi-pair cable with overall copper screen</b>					
27890314	3 x 2 x 0,14	0,11	4,8	21,8	30
27891014	10 x 2 x 0,14	0,11	7,6	49,7	69
27890225	2 x 2 x 0,25	0,11	4,8	23,6	33
27890525	5 x 2 x 0,25	0,11	6,8	43,7	60
27890625	6 x 2 x 0,25	0,11	7,0	50,1	68
27890434	4 x 2 x 0,34	0,11	6,8	46,1	58
27890250	2 x 2 x 0,50	0,16	6,0	36,9	50
27890350	3 x 2 x 0,50	0,16	6,8	48,5	65

Other dimensions and colours are possible on request.