

Continuous Flex Cables for Track

S 99 *ECO*

Continuous flex SABIX®/PUR control cable with numbered conductors



Marking for S 99 *ECO* 9741210:

SAB BRÖCKSKES · D-VIERSEN · S 99 *ECO* 12X1.0mm² CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 6
Insulation:	SABIX®
Color code from 2 conductors:	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green-yellow ground from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Wrapping:	non-woven tape
Shielding:	tinned copper braiding
Jacket material:	PUR, TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 with matte surface
Jacket color:	black (RAL 9005)

Outstanding features:



- low capacitance
- free from paint wetting impairment substances (PWIS-free)
- flexible at low temperatures
- halogen-free
- high abrasion resistance
- small bending radius
- small outer diameter

Technical data:

Nominal voltage::	Uo/U 300/500 V
Testing voltage:	conductor/conductor: 2000 V
Torsion angle:	± 60°/1 m
Min. bending radius:	
<i>fixed installation:</i>	3.0 x O.D.
<i>continuously flexing:</i>	7.5 x O.D.
Temperature range:	
<i>static:</i>	-50/+90°C
<i>flexing:</i>	-40/+90°C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Oil resistance:	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Chemical 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 page O/30

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item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈lbs/mft
multi-conductor cable unshielded				
▶ 20 AWG (≈ 28/34) ▪ 0.50 mm²				
9740505	5	0.213	5.4	29
9740705	7	0.252	6.4	40
9741205	12	0.299	7.6	57
9741805	18	0.354	9.0	84
9742505	25	0.433	11	116
▶ 19 AWG (≈ 42/34) ▪ 0.75 mm²				
9740207	2	0.193	4.9	20
9740307	3	0.205	5.2	25
9740407	4	0.220	5.6	32
9741807	18	0.417	10.6	124
▶ 18 AWG (≈ 56/34) ▪ 1.00 mm²				
9740210	2	0.201	5.1	24
9741210	12	0.358	9.1	98
9741810	18	0.433	11.0	152

Other dimensions and colors are available on request

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈lbs/mft
multi-conductor cable unshielded				
▶ 16 AWG (≈ 84/34) ▪ 1.50 mm²				
9740215	2	0.224	5.7	32
9740315	3	0.236	6.0	42
9740415	4	0.256	6.5	52
9740515	5	0.287	7.3	67
▶ 14 AWG (≈ 140/34) ▪ 2.50 mm²				
9740225	2	0.264	6.7	45
9740525	5	0.335	8.5	94
▶ 8 AWG (≈ 320/32) ▪ 10.00 mm²				
9740361	3	0.535	13.6	265
▶ 6 AWG (≈ 504/32) ▪ 16.00 mm²				
9740162	1	0.311	7.9	114
▶ 4 AWG (≈ 760/32) ▪ 25.00 mm²				
9740163	1	0.366	9.3	168
▶ 2 AWG (≈ 1083/32) ▪ 35.00 mm²				
9740164	1	0.437	11.1	239

Other dimensions and colors are available on request

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈lbs/mft
multi-conductor cable shielded				
▶ 20 AWG (≈ 28/34) ▪ 0.50 mm²				
9841205	12	0.319	8.1	69
▶ 19 AWG (≈ 42/34) ▪ 0.75 mm²				
9840707	7	0.303	7.7	66
▶ 18 AWG (≈ 56/34) ▪ 1.00 mm²				
9842510	25	0.579	14.7	258
▶ 16 AWG (≈ 84/34) ▪ 1.50 mm²				
9840315	3	0.256	6.5	52
9840415	4	0.276	7.0	63
9845015	50	0.862	21.9	640
▶ 14 AWG (≈ 140/34) ▪ 2.50 mm²				
9840325	3	0.315	8.0	79

Other dimensions and colors are available on request



Possible on request:

- 20 AWG to 1 AWG
- Single conductors: Cross sections up to 550 MCM
- Number of conductors from 1 to 65

