

# CONTINUOUS FLEX CABLES



## S 86 Continuous flex cable for moderate flexing applications



Marking for S 86 37721215:  
SAB BRÖCKSKES · D-VIERSEN · S 86 12 x 1,5 mm² CE

S 86 has been designed for use in cable tracks, automatic handling equipment and machine components in constant operation. The special cable design makes S 86 ideally suited for a wide range of moderate flexing operations.

**B**  
**42**

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	PVC T12 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
<b>Stranding:</b>	specially adjusted layering with non-woven tape over each layer
<b>Jacket material:</b>	PVC TM2 acc. to DIN VDE 0281 part 1 + HD 21.1, reinforced wall thickness
<b>Jacket color:</b>	gray

### Outstanding features:

- very good flexibility
- small bending radius
- reinforced outer jacket

### Technical data:

<b>Nominal voltage:</b>	Uo/U 300/500 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b> <i>static:</i>	7.5 x O.D.
<i>continuous flexing:</i>	
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b> <i>static:</i>	-40/+70 °C
<i>flexing:</i>	+5/+70 °C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2,
<b>Oil resistance:</b>	acc. to our internal standard see page N/25
<b>Chem. resistance:</b>	see page N/9
<b>Flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/25

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
<b>▶ 20 AWG (33/34) • 0.50 mm<sup>2</sup></b>					<b>▶ 18 AWG (56/34) • 1.00 mm<sup>2</sup></b>					<b>▶ 12 AWG (224/34) • 4.00 mm<sup>2</sup></b>				
37720205	2	0.209	5.3	23	37722510	25	0.657	16.7	287	37720240	2	0.390	9.9	109
37720305	3	0.220	5.6	30	37723610	36	0.740	18.8	405	37720340	3	0.425	10.8	138
37720405	4	0.244	6.2	37	37724410	44	0.843	21.4	486	37720440	4	0.461	11.7	169
37720505	5	0.268	6.8	45	37725210	52	0.886	22.5	566	37720540	5	0.516	13.1	220
37720705	7	0.315	8.0	62	37726510	65	1.000	25.4	716	37720740	7	0.650	16.5	329
37721205	12	0.390	9.9	91	<b>▶ 16 AWG (84/34) • 1.50 mm<sup>2</sup></b>					<b>▶ 10 AWG (192/32) • 6.00 mm<sup>2</sup></b>				
37721805	18	0.457	11.6	134	37720215	2	0.268	6.8	45	37720260	2	0.484	12.3	158
37722505	25	0.559	14.2	179	37720315	3	0.283	7.2	59	37720360	3	0.512	13.0	202
37723605	36	0.626	15.9	251	37720415	4	0.315	8.0	74	37720460	4	0.567	14.4	254
37724405	44	0.717	18.2	303	37720515	5	0.343	8.7	91	37720560	5	0.634	16.1	331
37725205	52	0.744	18.9	345	37720715	7	0.417	10.6	130	37720760	7	0.768	19.5	472
37726505	65	0.846	21.5	441	37721215	12	0.512	13.0	194	<b>▶ 8 AWG (320/32) • 10.00 mm<sup>2</sup></b>				
<b>▶ 19 AWG (42/34) • 0.75 mm<sup>2</sup></b>					37721815	18	0.610	15.5	290	37720461	4	0.681	17.3	397
37720207	2	0.228	5.8	29	37722515	25	0.740	18.8	390	37720561	5	0.768	19.5	521
37720307	3	0.248	6.3	40	37723615	36	0.839	21.3	551	<b>▶ 6 AWG (512/32) • 16.00 mm<sup>2</sup></b>				
37720407	4	0.268	6.8	47	37724415	44	0.953	24.2	668	37720462	4	0.823	20.9	602
37720507	5	0.299	7.6	60	37725215	52	1.000	25.4	777	37720562	5	0.925	23.5	786
37720707	7	0.358	9.1	83	37726515	65	1.130	28.7	967	<b>▶ 4 AWG (798/32) • 25.00 mm<sup>2</sup></b>				
37721207	12	0.437	11.1	120	<b>▶ 14 AWG (140/34) • 2.50 mm<sup>2</sup></b>					37720760	7	0.768	19.5	472
37721807	18	0.516	13.1	182	37720225	2	0.346	8.8	73	37720463	4	0.972	24.7	888
37722507	25	0.626	15.9	237	37720325	3	0.374	9.5	99	37720563	5	1.098	27.9	1159
37723607	36	0.713	18.1	343	37720425	4	0.406	10.3	120	<b>▶ 2 AWG (1102/32) • 35.00 mm<sup>2</sup></b>				
37724407	44	0.803	20.4	401	37720525	5	0.453	11.5	151	37720464	4	1.130	28.7	1198
37725207	52	0.843	21.4	466	37720725	7	0.551	14.0	217	37720564	5	1.268	32.2	1564
37726507	65	0.957	24.3	595	37721225	12	0.681	17.3	323	<b>▶ 1 AWG (703/28) • 50.00 mm<sup>2</sup></b>				
<b>▶ 18 AWG (56/34) • 1.00 mm<sup>2</sup></b>					37721825	18	0.819	20.8	470	37720465	4	1.358	34.5	1724
37720210	2	0.244	6.2	36	37722525	25	0.996	25.3	659	37720565	5	1.524	38.7	2236
37720310	3	0.256	6.5	45	37722725	27	0.996	25.3	698	Other dimensions and colors are possible on request.				
37720410	4	0.280	7.1	55	37723025	30	1.028	26.1	763					
37720510	5	0.311	7.9	69	37723625	36	1.126	28.6	906					
37720710	7	0.370	9.4	97	37724425	44	1.268	32.2	1107					
37721210	12	0.453	11.5	142	37725225	52	1.319	33.5	1276					
37721810	18	0.543	13.8	218	37726525	65	1.484	37.7	1589					