

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.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	PVC TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Jacket material:	PVC TM2 acc. to DIN VDE 0281 part 1 + HD 21.1, reinforced wall thickness
Jacket color:	gray

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
Min. bending radius continuous flexing:	7.5 x O.D.
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range static flexing:	-40/+70 °C +5/+70 °C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2,
Oil resistance:	acc. to our internal standard see page N/27
Chem. resistance:	see page N/9
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

Outstanding features:

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

item no.	no. of conductors incl. ground	nominal outer- ϕ inch	mm	cable weight \approx lbs/mft
▶ 20 AWG (\approx 28/34) • 0.50 mm²				
37720205	2	0.209	5.3	23
37720305	3	0.220	5.6	30
37720405	4	0.244	6.2	37
37720505	5	0.268	6.8	45
37720705	7	0.315	8.0	62
37721205	12	0.390	9.9	91
37721805	18	0.457	11.6	134
37722505	25	0.559	14.2	179
37723605	36	0.626	15.9	251
37724405	44	0.717	18.2	303
37725205	52	0.744	18.9	345
37726505	65	0.846	21.5	441
▶ 19 AWG (\approx 42/34) • 0.75 mm²				
37720207	2	0.228	5.8	29
37720307	3	0.248	6.3	40
37720407	4	0.268	6.8	47
37720507	5	0.299	7.6	60
37720707	7	0.358	9.1	83
37721207	12	0.437	11.1	120
37721807	18	0.516	13.1	182
37722507	25	0.626	15.9	237
37723607	36	0.713	18.1	343
37724407	44	0.803	20.4	401
37725207	52	0.843	21.4	466
37726507	65	0.957	24.3	595
▶ 18 AWG (\approx 56/34) • 1.00 mm²				
37720210	2	0.244	6.2	36
37720310	3	0.256	6.5	45
37720410	4	0.280	7.1	55
37720510	5	0.311	7.9	69
37720710	7	0.370	9.4	97
37721210	12	0.453	11.5	142
37721810	18	0.543	13.8	218

item no.	no. of conductors incl. ground	nominal outer- ϕ inch	mm	cable weight \approx lbs/mft
▶ 18 AWG (\approx 56/34) • 1.00 mm²				
37722510	25	0.657	16.7	287
37723610	36	0.740	18.8	405
37724410	44	0.843	21.4	486
37725210	52	0.886	22.5	566
37726510	65	1.000	25.4	716
▶ 16 AWG (\approx 84/34) • 1.50 mm²				
37720215	2	0.268	6.8	45
37720315	3	0.283	7.2	59
37720415	4	0.315	8.0	74
37720515	5	0.343	8.7	91
37720715	7	0.417	10.6	130
37721215	12	0.512	13.0	194
37721815	18	0.610	15.5	290
37722515	25	0.740	18.8	390
37723615	36	0.839	21.3	551
37724415	44	0.953	24.2	668
37725215	52	1.000	25.4	777
37726515	65	1.130	28.7	967
▶ 14 AWG (\approx 140/34) • 2.50 mm²				
37720225	2	0.346	8.8	73
37720325	3	0.374	9.5	99
37720425	4	0.406	10.3	120
37720525	5	0.453	11.5	151
37720725	7	0.551	14.0	217
37721225	12	0.681	17.3	323
37721825	18	0.819	20.8	470
37722525	25	0.996	25.3	659
37722725	27	0.996	25.3	698
37723025	30	1.028	26.1	763
37723625	36	1.126	28.6	906
37724425	44	1.268	32.2	1107
37725225	52	1.319	33.5	1276
37726525	65	1.484	37.7	1589

item no.	no. of conductors incl. ground	nominal outer- ϕ inch	mm	cable weight \approx lbs/mft
▶ 12 AWG (\approx 224/34) • 4.00 mm²				
37720240	2	0.390	9.9	109
37720340	3	0.425	10.8	138
37720440	4	0.461	11.7	169
37720540	5	0.516	13.1	220
37720740	7	0.650	16.5	329
▶ 10 AWG (\approx 186/32) • 6.00 mm²				
37720260	2	0.484	12.3	158
37720360	3	0.512	13.0	202
37720460	4	0.567	14.4	254
37720560	5	0.634	16.1	331
37720760	7	0.768	19.5	472
▶ 8 AWG (\approx 320/32) • 10.00 mm²				
37720461	4	0.681	17.3	397
37720561	5	0.768	19.5	521
▶ 6 AWG (\approx 504/32) • 16.00 mm²				
37720462	4	0.823	20.9	602
37720562	5	0.925	23.5	786
▶ 4 AWG (\approx 760/32) • 25.00 mm²				
37720463	4	0.972	24.7	888
37720563	5	1.098	27.9	1159
▶ 2 AWG (\approx 1083/32) • 35.00 mm²				
37720464	4	1.130	28.7	1198
37720564	5	1.268	32.2	1564
▶ 1 AWG (\approx 703/28) • 50.00 mm²				
37720465	4	1.358	34.5	1724
37720565	5	1.524	38.7	2236

Other dimensions and colors are possible on request.

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