S 86 C Shielded continuous flex cable for moderate flexing applications

Marking for S 86 C 37820715:
SAB BRÖCKSKES · D-VIERSEN · S 86 C 7 x 1,5 mm²

S 86 C has been designed for use in cable tracks, automatic handling equipment and machine components in constant operation. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The special cable design makes S 86 C 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
Inner jacket:	PVC TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PVC TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	gray

Outstanding features:

- **very good flexibility**
- **good EMC characteristics**
- **small bending radius**
- **reinforced outer jacket**

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 2000 V
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

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
37820205	2	0.307	7.8	54
37820305	3	0.319	8.1	60
37820405	4	0.335	8.5	68
37820505	5	0.366	9.3	81
37820705	7	0.406	10.3	105
37821205	12	0.504	12.8	155
37821805	18	0.591	15.0	221
37822505	25	0.681	17.3	284
37823005	30	0.705	17.9	317
37823605	36	0.768	19.5	376
► **19 AWG (≈ 42/34) • 0.75 mm²**				
37820207	2	0.327	8.3	62
37820307	3	0.339	8.6	69
37820407	4	0.366	9.3	83
37820507	5	0.390	9.9	96
37820707	7	0.457	11.6	130
37821207	12	0.551	14.0	190
37821807	18	0.634	16.1	268
37822507	25	0.764	19.4	360
37823007	30	0.783	19.9	404
37823607	36	0.843	21.4	395
► **18 AWG (≈ 56/34) • 1.00 mm²**				
37820210	2	0.339	8.6	68
37820310	3	0.354	9.0	79
37820410	4	0.378	9.6	91
37820510	5	0.402	10.2	106
37820710	7	0.476	12.1	167
37821210	12	0.575	14.6	225
37821810	18	0.665	16.9	312
37822510	25	0.776	19.7	409
37822710	27	0.787	20.0	429
37823010	30	0.819	20.8	465
37823610	36	0.878	22.3	548

Continued on next page

S 86 C Shielded continuous flex cable for moderate flexing applications

Marking for S 86 C 37820715:
SAB BRÖCKSKES · D-VIERSEN · S 86 C 7 x 1,5 mm²

S 86 C has been designed for use in cable tracks, automatic handling equipment and machine components in constant operation. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The special cable design makes S 86 C 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
Inner jacket:	PVC TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PVC TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	gray

Outstanding features:

- **very good flexibility**
- **good EMC characteristics**
- **small bending radius**
- **reinforced outer jacket**

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 2000 V
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

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► 16 AWG (≈ 84/34) • 1.50 mm²				
37820215	2	0.366	9.3	81
37820315	3	0.382	9.7	94
37820415	4	0.413	10.5	114
37820515	5	0.449	11.4	142
37820715	7	0.524	13.3	193
37821215	12	0.634	16.1	286
37821815	18	0.732	18.6	395
37822515	25	0.878	22.3	534
37822715	27	0.878	22.3	557
37823015	30	0.902	22.9	598
37823615	36	0.976	24.8	715
► 14 AWG (≈ 140/34) • 2.50 mm²				
37820225	2	0.445	11.3	123
37820325	3	0.472	12.0	151
37820425	4	0.512	13.0	181
37820525	5	0.567	14.4	232
37820725	7	0.657	16.7	307
37821225	12	0.795	20.2	442
37821825	18	0.929	23.6	631
37822525	25	1.110	28.2	834
37823025	30	1.142	29.0	948
37823625	36	1.244	31.6	1126
► 12 AWG (≈ 224/34) • 4.00 mm²				
37820240	2	0.508	12.9	167
37820340	3	0.539	13.7	206
37820440	4	0.591	15.0	261
37820540	5	0.646	16.4	304
37820740	7	0.752	19.1	398
► 10 AWG (≈ 186/32) • 6.00 mm²				
37820260	2	0.591	15.0	230
37820360	3	0.618	15.7	285
37820460	4	0.689	17.5	343
37820560	5	0.740	18.8	411
37820760	7	0.874	22.2	543
► 8 AWG (≈ 320/32) • 10.00 mm²				
37820461	4	0.819	20.8	534
37820561	5	0.898	22.8	620
► 6 AWG (≈ 504/32) • 16.00 mm²				
37820462	4	0.953	24.2	761
37820562	5	1.063	27.0	902
► 4 AWG (≈ 760/32) • 25.00 mm²				
37820463	4	1.118	28.4	1085
37820563	5	1.244	31.6	1299
► 2 AWG (≈ 1083/32) • 35.00 mm²				
37820464	4	1.283	32.6	1424

Other dimensions and colors are possible on request.