

FLEXIBLE CONTROL CABLES



CC 500 SY (TR) Steel braided flexible control cable with black conductors

Reg.-Nr. 7000 CC 500 SY (TR) 4 x 0,5 mm² CE



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Marking for CC 500 SY (TR) 02180405:

SAB BRÖCKSKES · D-VIERSEN · ÖSYZ-J (TR) VDE-Reg.-Nr. 7000 CC 500 SY (TR) 4 x 0,5 mm² CE

CC 500 SY is a multi-conductor, steel braided, flexible power and control cable. The steel wire braid provides excellent protection against mechanical abuse and EMI emissions. Recommended applications include machine tools, assembly lines, control systems, data processing equipment, CNC machining centers, connections between control panels and machines, grinding machines and bottling equipment.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
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
Inner jacket:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Screen:	galvanized steel wire braiding
Stranding:	in layers
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	CC 500 SY: gray CC 500 SY (TR): transparent

Outstanding features:

- flexible
- high mechanical loading capacity

Technical data:

Nominal voltage:	U ₀ /U 300/500 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
Min. bending radius <i>fixed installation:</i> <i>free movement:</i>	5 x O.D. 10 x O.D.
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range <i>static:</i> <i>flexing:</i>	-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 internal standard, see page N/27
Chem. resistance:	see page N/9
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 (≈ 16/32) • 0.50 mm ²				
02180205	2	0.303	7.7	50
02180305	3	0.315	8.0	56
02180405	4	0.331	8.4	64
02180505	5	0.358	9.1	75
02180705	7	0.382	9.7	87
02181005	10	0.457	11.6	116
02181205	12	0.476	12.1	130
02181405	14	0.500	12.7	147
02181805	18	0.559	14.2	187
02182105	21	0.606	15.4	216
02182505	25	0.654	16.6	243
02183005	30	0.669	17.0	270
02183405	34	0.720	18.3	304
02184005	40	0.776	19.7	358
02185005	50	0.839	21.3	416
02186105	61	0.890	22.6	487
02188005	80	1.008	25.6	622

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► 19 AWG (≈ 23/32) • 0.75 mm ²				
02180207	2	0.327	8.3	60
02180307	3	0.339	8.6	68
02180407	4	0.366	9.3	79
02180507	5	0.390	9.9	90
02180707	7	0.409	10.4	106
02180907	9	0.516	13.1	158
02181007	10	0.520	13.2	153
02181207	12	0.547	13.9	182
02181407	14	0.567	14.4	196
02181807	18	0.622	15.8	239
02182107	21	0.681	17.3	281
02182507	25	0.740	18.8	321
02183007	30	0.768	19.5	364
02183407	34	0.823	20.9	409
02184007	40	0.882	22.4	474
02185007	50	0.953	24.2	554
02186107	61	1.020	25.9	657
02188007	80	1.146	29.1	830

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► 18 AWG (≈ 30/32) • 1.00 mm ²				
02180210	2	0.335	8.5	65
02180310	3	0.346	8.8	73
02180410	4	0.378	9.6	87
02180510	5	0.406	10.3	104
02180710	7	0.437	11.1	125
02180810	8	0.504	12.8	159
02180910	9	0.539	13.7	185
02181010	10	0.551	14.0	183
02181210	12	0.563	14.3	201
02181410	14	0.594	15.1	225
02181810	18	0.650	16.5	278
02182010	20	0.677	17.2	302
02182510	25	0.772	19.6	369
02183010	30	0.795	20.2	415
02183410	34	0.846	21.5	469
02184110	41	0.913	23.2	552
02185010	50	1.004	25.5	655
02186110	61	1.063	27.0	765
02188010	80	1.197	30.4	970

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Outstanding features:

- flexible
- high mechanical loading capacity

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 16 AWG (≈ 27-29/30) • 1.50 mm ²				
02180215	2	0.366	9.3	79
02180315	3	1.563	39.7	91
02180415	4	0.406	10.3	105
02180515	5	0.441	11.2	126
02180615	6	0.480	12.2	152
02180715	7	0.480	12.2	159
02180815	8	0.563	14.3	208
02180915	9	0.591	15.0	229
02181015	10	0.606	15.4	228
02181215	12	0.622	15.8	253
02181415	14	0.654	16.6	288
02181815	18	0.720	18.3	354
02182115	21	0.795	20.2	421
02182515	25	0.854	21.7	478
02183015	30	0.886	22.5	547
02183415	34	0.953	24.2	616
02184215	42	1.028	26.1	748
02185015	50	1.118	28.4	819
02186115	61	1.185	30.1	1017
02188015	80	1.358	34.5	1333

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 14 AWG (≈ 46/30) • 2.50 mm ²				
02180225	2	0.421	10.7	110
02180325	3	0.441	11.2	128
02180425	4	0.476	12.1	153
02180525	5	0.520	13.2	183
02180625	6	0.571	14.5	226
02180725	7	0.575	14.6	238
02181225	12	0.744	18.9	380
02181425	14	0.780	19.8	427
02181825	18	0.858	21.8	532
02182125	21	0.953	24.2	628
02182525	25	1.031	26.2	715
02183025	30	1.067	27.1	821
02183425	34	1.146	29.1	930
02184025	40	1.256	31.9	1119
02185025	50	1.362	34.6	1327
02186125	61	1.453	36.9	1569
▶ 12 AWG (≈ 52/28) • 4.00 mm ²				
02180340	3	0.512	13.0	180
02180440	4	0.563	14.3	226
02180540	5	0.610	15.5	270
02180740	7	0.665	16.9	339

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 10 AWG (≈ 78/28) • 6.00 mm ²				
02180460	4	0.646	16.4	310
02180560	5	0.701	17.8	372
02180760	7	0.772	19.6	475
▶ 8 AWG (≈ 77/26) • 10.00 mm ²				
02180461	4	0.799	20.3	491
02180561	5	0.882	22.4	605
02180761	7	0.961	24.4	761
▶ 6 AWG (≈ 122/26) • 16.00 mm ²				
02180462	4	0.957	24.3	719
02180562	5	1.063	27.0	895
02180762	7	1.165	29.6	1144
▶ 4 AWG (≈ 190/26) • 25.00 mm ²				
02180463	4	1.138	28.9	1097
02180563	5	1.276	32.4	1386
▶ 2 AWG (≈ 272/26) • 35.00 mm ²				
02180464	4	1.311	33.3	1506
02180564	5	1.449	36.8	1859

Other dimensions and colors are possible on request.

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