CC 500 Flexible control cable with numbered conductors

VDE CE

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Marking for CC 500 02005005:
SAB BRÖCKSKES · D-VIERSEN · ÖZ-J VDE-Reg.-Nr. 7000 CC 500 50 x 0,5 mm² CE

CC 500 is a multi-conductor, flexible power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. 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 DIN VDE 0295 class 5 + IEC 60228 class 5 + HD 383 class 5
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	black conductors with consecutive numbers acc. to DIN VDE 0293 + HD 186; green-yellow earth wire from 3 conductors
Stranding:	in layers
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	gray

Outstanding features:

- **flexible**
- **numbered conductors**
- **small bending radius**

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage U:	3000 V acc. to DIN VDE 0472 part 508
Min. bending radius	
fixed installation:	< 12 mm = 3 x O.D. > 12 mm = 4 x O.D.
free movement:	< 12 mm = 5 x O.D. > 12 mm = 6 x O.D.
Radiation resistance:	8 x 10^7 cJ/kg
Temperature range	
static:	-40/+70 °C
flexing:	+5/+70 °C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1
Oil resistance:	acc. to internal standard, see page L/23
Chem. resistance:	see page L/9

► **20 AWG (17/32) • 0.50 mm²**

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
02000205	2	0.201	5.1	25
02000305	3	0.213	5.4	29
02000405	4	0.228	5.8	35
02000505	5	0.256	6.5	43
02000705	7	0.280	7.1	54
02000805	8	0.327	8.3	67
02000905	9	0.346	8.8	74
02001005	10	0.362	9.2	79
02001205	12	0.374	9.5	89
02001405	14	0.390	9.9	99
02001605	16	0.417	10.6	115
02001805	18	0.441	11.2	127
02002105	21	0.488	12.4	151
02002505	25	0.535	13.6	175
02003005	30	0.551	14.0	200
02003405	34	0.602	15.3	229
02004005	40	0.650	16.5	268
02004205	42	0.650	16.5	278
02005005	50	0.713	18.1	326
02006105	61	0.764	19.4	355
02006505	65	0.803	20.4	416
02008005	80	0.874	22.2	505

► **19 AWG (23/32) • 0.75 mm²**

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
02000207	2	0.224	5.7	32
02000307	3	0.244	6.2	40
02000407	4	0.264	6.7	48
02000507	5	0.287	7.3	56
02000707	7	0.323	8.2	74
02000807	8	0.378	9.6	91
02000907	9	0.402	10.2	102
02001007	10	0.417	10.6	107
02001207	12	0.429	10.9	122
02001407	14	0.449	11.4	136
02001607	16	0.480	12.2	157
02001807	18	0.508	12.9	173
02002107	21	0.563	14.3	205
02002507	25	0.614	15.6	238
02003007	30	0.642	16.3	280
02003407	34	0.701	17.8	318
02004007	40	0.748	19.0	367
02004207	42	0.748	19.0	380
02005007	50	0.827	21.0	452
02006107	61	0.886	22.5	540
02006507	65	0.941	23.9	584
02008007	80	1.012	25.7	699

► **18 AWG (30/32) • 1.00 mm²**

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
02000210	2	0.232	5.9	36
02000310	3	0.252	6.4	45
02000410	4	0.276	7.0	55
02000510	5	0.307	7.8	68
02000710	7	0.335	8.5	86
02000810	8	0.390	9.9	106
02000910	9	0.425	10.8	122
02001010	10	0.433	11.0	127
02001210	12	0.445	11.3	142
02001410	14	0.476	12.1	164
02001610	16	0.500	12.7	183
02001810	18	0.535	13.6	208
02002110	21	0.591	15.0	244
02002510	25	0.646	16.4	284
02003010	30	0.669	17.0	328
02003410	34	0.728	18.5	374
02004010	40	0.783	19.9	437
02004210	42	0.783	19.9	455
02005010	50	0.862	21.9	532
02006110	61	0.929	23.6	644
02006510	65	0.976	24.8	688
02008010	80	1.063	27.0	835

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Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	black conductors with consecutive numbers acc. to DIN VDE 0293 + HD 186; green-yellow earth wire from 3 conductors
Stranding:	in layers
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	gray

Outstanding features:

- **flexible**
- **numbered conductors**
- **small bending radius**

Technical data:

Nominal voltage:	Uo/U 300/500 V
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Min. bending radius	
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Radiation resistance:	8 x 10^7 cJ/kg
Temperature range	
static:	-40/+70 °C
flexing:	+5/+70 °C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1
Oil resistance:	acc. to internal standard, see page L/23
Chem. resistance:	see page L/9

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **16 AWG (27-29/30) • 1.50 mm²**				
02000215	2	0.264	6.7	48
02000315	3	0.280	7.1	58
02000415	4	0.311	7.9	73
02000515	5	0.339	8.6	87
02000715	7	0.378	9.6	116
02000815	8	0.441	11.2	141
02000915	9	0.480	12.2	157
02001015	10	0.488	12.4	165
02001215	12	0.504	12.8	190
02001415	14	0.535	13.6	218
02001615	16	0.563	14.3	245
02001815	18	0.602	15.3	278
02002115	21	0.665	16.9	327
02002515	25	0.728	18.5	383
02003015	30	0.760	19.3	450
02003415	34	0.827	21.0	511
02004015	40	0.890	22.6	599
02004215	42	0.890	22.6	622
02005015	50	0.976	24.8	732
02006115	61	1.051	26.7	884
02006515	65	1.114	28.3	954
02008015	80	1.201	30.5	1148

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **14 AWG (46/30) • 2.50 mm²**				
02000225	2	0.319	8.1	72
02000325	3	0.339	8.6	89
02000425	4	0.374	9.5	112
02000525	5	0.417	10.6	138
02000725	7	0.457	11.6	177
02000825	8	0.543	13.8	220
02000925	9	0.587	14.9	247
02001025	10	0.598	15.2	258
02001225	12	0.618	15.7	296
02001425	14	0.654	16.6	341
02001625	16	0.689	17.5	384
02001825	18	0.736	18.7	431
02002125	21	0.823	20.9	515
02002525	25	0.898	22.8	597
► **12 AWG (52/28) • 4.00 mm²**				
02000340	3	0.402	10.2	132
02000440	4	0.445	11.3	166
02000540	5	0.496	12.6	205
02000740	7	0.547	13.9	269

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **10 AWG (78/28) • 6.00 mm²**				
02000360	3	0.476	12.1	192
02000460	4	0.520	13.2	237
02000560	5	0.587	14.9	298
02000760	7	0.646	16.4	390
► **8 AWG (77/26) • 10.00 mm²**				
02000461	4	0.673	17.1	403
02000561	5	0.760	19.3	504
02000761	7	0.835	21.2	659
► **6 AWG (119/26) • 16.00 mm²**				
02000462	4	0.831	21.1	617
02000562	5	0.929	23.6	765
02000762	7	1.024	26.0	1004
► **4 AWG (196/26) • 25.00 mm²**				
02000463	4	1.004	25.5	966
02000563	5	1.126	28.6	1212
02000763	7	1.244	31.6	1587
► **2 AWG (280/26) • 35.00 mm²**				
02000464	4	1.161	29.5	1334
02000564	5	1.295	32.9	1669
02000764	7	1.433	36.4	2190
► **1 AWG (400/26) • 50.00 mm²**				
02000465	4	1.335	33.9	1824

Other dimensions and colors are possible on request.