

# FLEXIBLE CONTROL CABLES

also available with blue, red and orange conductors and black or orange jacket

## CC 600 Oil resistant 90°C flexible control cable with black conductors, AWG 20 - AWG 10



Marking for CC 600 02041840: S BRÖCKSKES · D-VIERSEN · VDE-Reg.-Nr. 7000  
40 x 1,0 mm<sup>2</sup> CC 600 18 AWG/40c 02041840 AWM Style 21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90°C F 600V FT1 FT2

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CC 600 is a multi-conductor, 600 V, 90°C, UL, CSA and VDE approved, oil resistant flexible control cable. The reduced outer diameter permits easy handling and installation in confined areas. Our specially designed PVC jacket passes the stringent requirements of the VDE test 0281 part 1 and HD 21.1 oil test providing the best oil resistance available for a PVC jacket. CC 600 control cables are designed for use in all electrical equipment in dry, damp and wet conditions. Recommended applications are machine tools, control systems, assembly lines, CNC machining centers, grinding machines, bottling equipment, data processing equipment and connections between control panels and machines.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special PVC acc. to DIN VDE and UL/CSA
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
<b>Stranding:</b>	in layers
<b>Jacket material:</b>	special oil resistant PVC acc. to DIN VDE and UL/CSA
<b>Jacket color:</b>	gray

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
<b>Min. bending radius</b>		
<i>fixed installation:</i>	< 12 mm = 3 x O.D. > 12 mm = 4 x O.D.	
<i>free movement:</i>	< 12 mm = 5 x O.D. > 12 mm = 6 x O.D.	
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA:</b> up to +90°C
<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, UL VW1, CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1, Oil 60°C acc. to UL 758, Fuel Oil acc. to CSA-C 22.2 No. 210.2-M90	
<b>Chem. resistance:</b>	see page N/9	
<b>Impact and Crushing test:</b>	in accordance to UL 1277 same requirement for Exposed Run	
<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	

### Outstanding features:

- **UL and CSA approved**
- **high mechanical loading capacity**
- **oil resistant**

item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft
<b>▶ 20 AWG (17/32)</b>				
02042002	2	0.209	5.3	27
02042003	3	0.220	5.6	32
02042004	4	0.236	6.0	36
02042005	5	0.264	6.7	48
02042007	7	0.283	7.2	58
02042008	8	0.335	8.5	77
02042009	9	0.362	9.2	84
02042010	10	0.370	9.4	85
02042012	12	0.382	9.7	96
02042014	14	0.398	10.1	108
02042016	16	0.429	10.9	126
02042018	18	0.449	11.4	139
02042025	25	0.547	13.9	190
02042030	30	0.563	14.3	218
02042034	34	0.614	15.6	251
02042040	40	0.665	16.9	296
02042041	41	0.665	16.9	287
02042061	61	0.780	19.8	424
<b>▶ 18 AWG (30/32)</b>				
02041802	2	0.236	6.0	37
02041803	3	0.252	6.4	46
02041804	4	0.276	7.0	53
02041805	5	0.307	7.8	70
02041807	7	0.335	8.5	87
02041808	8	0.390	9.9	106
02041809	9	0.425	10.8	122
02041810	10	0.433	11.0	125

item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft
<b>▶ 18 AWG (30/32)</b>				
02041812	12	0.445	11.3	142
02041814	14	0.476	12.1	165
02041815	15	0.500	12.7	180
02041818	18	0.535	13.6	209
02041825	25	0.646	16.4	286
02041830	30	0.669	17.0	331
02041834	34	0.728	18.5	380
02041840	40	0.783	19.9	447
02041841	41	0.783	19.9	434
02041850	50	0.882	22.4	533
02041861	61	0.933	23.7	654
<b>▶ 16 AWG (27-29/30)</b>				
02041602	2	0.264	6.7	48
02041603	3	0.280	7.1	58
02041604	4	0.311	7.9	71
02041605	5	0.339	8.6	90
02041607	7	0.378	9.6	116
02041608	8	0.441	11.2	149
02041609	9	0.480	12.2	162
02041610	10	0.488	12.4	167
02041612	12	0.504	12.8	191
02041614	14	0.535	13.6	220
02041615	15	0.563	14.3	229
02041616	16	0.563	14.3	249
02041618	18	0.602	15.3	282
02041625	25	0.728	18.5	386
02041630	30	0.760	19.3	453

item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft
<b>▶ 16 AWG (27-29/30)</b>				
02041634	34	0.827	21.0	519
02041640	40	0.902	22.9	620
02041641	41	0.902	22.9	597
02041650	50	0.980	24.9	714
02041661	61	1.051	26.7	891
<b>▶ 14 AWG (46/30) • 2.50 mm<sup>2</sup></b>				
02041402	2	0.319	8.1	73
02041403	3	0.339	8.6	89
02041404	4	0.374	9.5	108
02041405	5	0.417	10.6	141
02041407	7	0.457	11.6	179
02041408	8	0.543	13.8	233
02041409	9	0.587	14.9	267
02041410	10	0.598	15.2	260
02041412	12	0.618	15.7	299
02041418	18	0.736	18.7	440
02041425	25	0.909	23.1	612
<b>▶ 12 AWG (52/28)</b>				
02041203	3	0.402	10.2	132
02041204	4	0.445	11.3	161
02041205	5	0.496	12.6	209
02041207	7	0.547	13.9	271
<b>▶ 10 AWG (78/28)</b>				
02041003	3	0.476	12.1	193
02041004	4	0.520	13.2	239
02041005	5	0.587	14.9	303

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