

# FLEXIBLE CONTROL CABLES



## CC 600 World Oil resistant flexible control cable with international standards



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Marking for CC 600 World 02512018: SAB BRÖCKSKES · D-VIERSEN · <VDE> <HAR> H05VV5-F 02511805 18G0,5 mm2 CC 600 World 20 AWG/18c 02512018 AWM Style 21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90°C F 600V FT1 FT2 CE

CC 600 World is a multi-conductor, 600 V, 90°C, oil resistant cable, with all approvals. CC 600 World control cables are designed for use in all electrical equipment in dry, damp and wet conditions. Our special 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. 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. For use in North America, Europe and Asia.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, T12 acc. to DIN VDE 0281 part 1 + HD 21.1
<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>	PVC, TM5 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Jacket color:</b>	gray

### Outstanding features:

- flexible
- oil resistant
- UL, CSA, VDE and HAR standardized

### 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> <i>static:</i>	<b>DIN VDE</b> -40/+70 °C	<b>UL/CSA:</b> up to +90 °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	
<b>Chem. resistance:</b>	see page N/9	
<b>Absence of harmful substances:</b>	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	item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
<b>▶ 20 AWG (≈ 16/32) • 0.50 mm<sup>2</sup></b>					<b>▶ 18 AWG (≈ 30/32) • 1.00 mm<sup>2</sup></b>					<b>▶ 14 AWG (≈ 46/30) • 2.50 mm<sup>2</sup></b>				
02512003	3	0.256	6.5	40	02511803	3	0.291	7.4	56	02511403	3	0.398	10.1	112
02512004	4	0.283	7.2	50	02511804	4	0.319	8.1	68	02511404	4	0.445	11.3	140
02512005	5	0.311	7.9	61	02511805	5	0.358	9.1	86	02511405	5	0.492	12.5	173
02512007	7	0.374	9.5	87	02511807	7	0.425	10.8	120	02511407	7	0.591	15.0	247
02512009	9	0.433	11.0	103	02511809	9	0.500	12.7	143	02511409	9	0.689	17.5	282
02512012	12	0.453	11.5	122	02511812	12	0.524	13.3	175	02511412	12	0.732	18.6	367
02512018	18	0.543	13.8	181	02511818	18	0.626	15.9	258	02511418	18	0.890	22.6	552
<b>▶ 19 AWG (≈ 23/32) • 0.75 mm<sup>2</sup></b>					<b>▶ 16 AWG (≈ 27-29/30) • 1.50 mm<sup>2</sup></b>					Other dimensions and colors are possible on request.				
02511903	3	0.280	7.1	49	02511603	3	0.331	8.4	75					
02511904	4	0.311	7.9	60	02511604	4	0.374	9.5	95					
02511905	5	0.315	8.0	65	02511605	5	0.417	10.6	119					
02511907	7	0.409	10.4	106	02511607	7	0.504	12.8	169					
02511909	9	0.480	12.2	127	02511609	9	0.591	15.0	194					
02511912	12	0.508	12.9	154	02511612	12	0.618	15.7	247					
02511918	18	0.602	15.3	224	02511618	18	0.740	18.8	364					

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