

NFPA 79
for Industrial
Machinery

FLEXIBLE CONTROL CABLES

RoHS

CC 600 MTW Type MTW Oil resistant 90°C flexible control cable and machine-tool cable

1216 90°C Oil 60°C 600V CSA AWM I/II A/B 90°C 1000V FT1 FT2 CE



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Marking for CC 600 MTW 35501805: SAB BRÖCKSKES · D-VIERSEN ·

5 x 1,0 mm² CC 600 MTW 18 AWG/5c 35501805 (UL) Type MTW 600V AWM Style 21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90°C 1000V FT1 FT2 CE

CC 600 MTW is a multi-conductor, 600 V, 90°C, UL recognized, CSA and VDE approved, oil resistant flexible control cable. Also machine-tool cable for use as specified in the National Electrical Code (NFPA 70) and in the National Fire Protection Association Electrical Standard for Industrial Machinery (NFPA 79). 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 MTW 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. MTW listed cables can be used in NFPA 79 Machine areas.

Construction:

Conductor:	bare copper strands acc. to IEC 60228 class 5 and UL standard 758 table 5.1 + UL 1581 table 20.1
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with consecutive numbers; green-yellow earth wire from 3 conductors
Stranding:	in layers
Jacket material:	special oil resistant PVC
Jacket color:	gray

Outstanding features:

- ▶ UL recognized, CSA approved and (UL) listed
- ▶ flexible cable for use as machine-tool cable
- ▶ oil resistant
- ▶ NFPA 79 for Industrial Machinery

Technical data:

Voltage:	UL-AWM / (UL): 600 V CSA: 1000 V
Testing voltage:	4000 V
Min. bending radius <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.
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range: <i>storage ambient:</i>	(UL) / CSA: -25/+90°C -40/+90°C
Burning characteristics:	CSA FT1 and FT2
Oil resistance:	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. 210-05
Impact and Crushing test:	in accordance to UL 1277 same requirement for Exposed Run
Machinery Area:	yes
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
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▶ 18 AWG (≈ 30/32) • 1.00 mm²

35501803	3	0.303	7.7	58
35501804	4	0.327	8.3	69
35501805	5	0.358	9.1	83
35501807	7	0.386	9.8	101
35501809	9	0.469	11.9	130
35501812	12	0.496	12.6	1583
35501816	16	0.575	14.6	208
35501818	18	0.602	15.3	224
35501819	19	0.602	15.3	237
35501825	25	0.713	18.1	302
35501827	27	0.713	18.1	314
35501837	37	0.791	20.1	417
35501850	50	0.969	24.6	583

▶ 16 AWG (≈ 27-29/30) • 1.50 mm²

35501603	3	0.331	8.4	72
35501604	4	0.358	9.1	86
35501605	5	0.386	9.8	99
35501607	7	0.421	10.7	125
35501608	8	0.484	12.3	149
35501609	9	0.516	13.1	167

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
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▶ 16 AWG (≈ 27-29/30) • 1.50 mm²

35501612	12	0.571	14.5	210
35501616	16	0.630	16.0	267
35501618	18	0.661	16.8	295
35501619	19	0.661	16.8	304
35501625	25	0.783	19.9	390
35501627	27	0.783	19.9	414
35501637	37	0.917	23.3	579
35501641	41	0.984	25.0	643
35501650	50	1.067	27.1	757
35501661	61	1.134	28.8	898

▶ 14 AWG (≈ 46/30) • 2.50 mm²

35501403	3	0.366	9.3	96
35501404	4	0.394	10.0	116
35501405	5	0.429	10.9	136
35501407	7	0.469	11.9	173
35501409	9	0.606	15.4	243
35501412	12	0.634	16.1	292
35501418	18	0.740	18.8	412
35501425	25	0.925	23.5	590

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
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▶ 12 AWG (≈ 52/28) • 4.00 mm²

35501203	3	0.413	10.5	134
35501204	4	0.449	11.4	160
35501205	5	0.492	12.5	194
35501207	7	0.567	14.4	265

▶ 10 AWG (≈ 78/28) • 6.00 mm²

35501003	3	0.488	12.4	188
35501004	4	0.563	14.3	253
35501005	5	0.614	15.6	298
35501007	7	0.669	17.0	385

▶ 8 AWG (≈ 77/26) • 10.00 mm²

35500804	4	0.713	18.1	401
35500805	5	0.783	19.9	481

▶ 6 AWG (≈ 122/26) • 16.00 mm²

35500604	4	0.898	22.8	610
35500605	5	0.988	25.1	739

▶ 4 AWG (≈ 190/26) • 25.00 mm²

35500404	4	1.079	27.4	915
35500405	5	1.193	30.3	1113

▶ 2 AWG (≈ 272/26) • 35.00 mm²

35500204	4	1.240	31.5	1296
35500205	5	1.374	34.9	1575

Other dimensions and colors are possible on request.

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Web site: www.sabcable.com