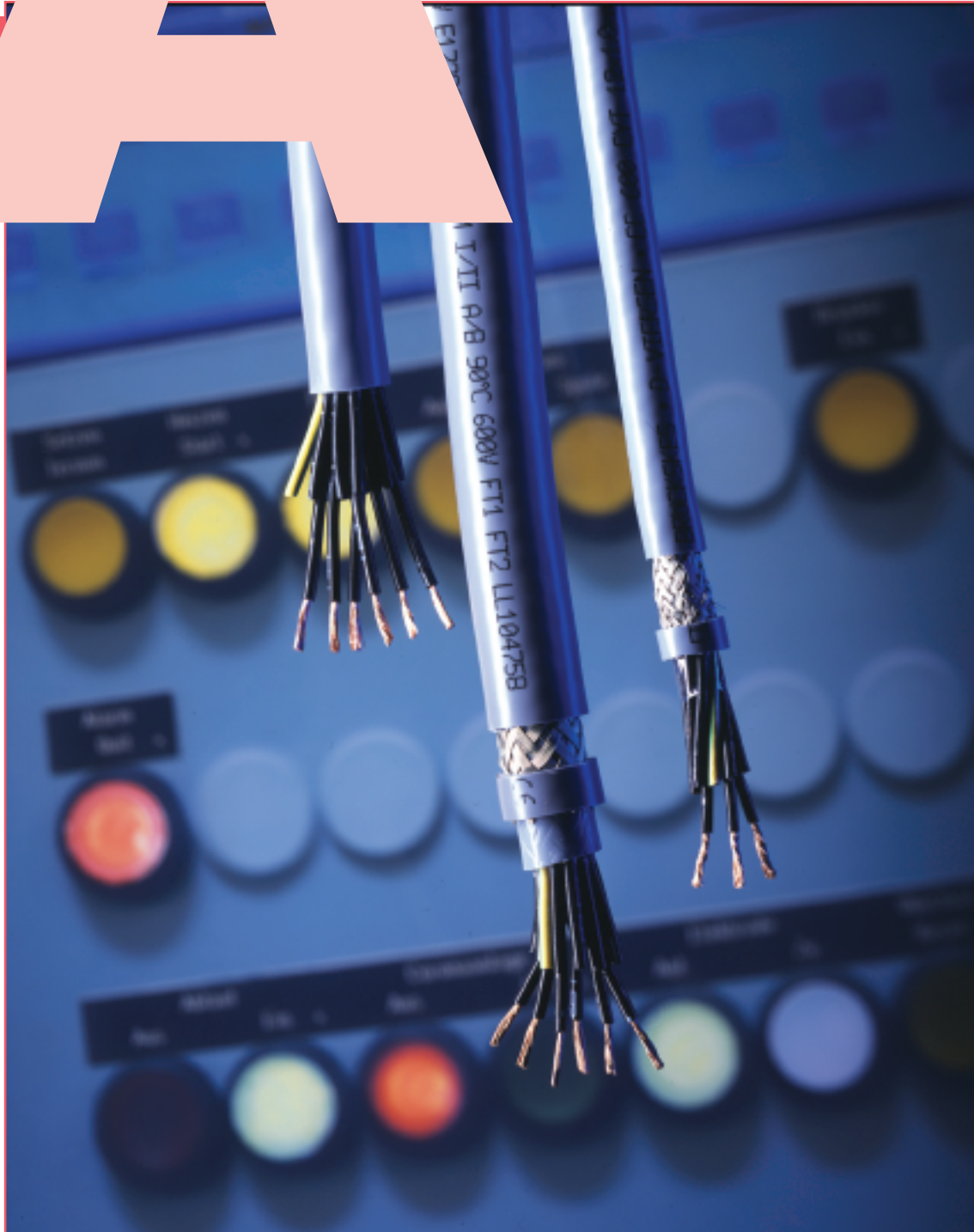


Flexible Control Cables



E-mail: info@sabcable.com



Web site: www.sabcable.com

Chapter

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Item	Description	Page
PVC Control and Connection Cables		
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CC 600 MTW type MTW	Oil resistant 90°C flexible control and machine tool cable, UL, CSA, (UL), CE	A 10
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CRX 600	TPE oil & chemical resistant 105°C flexible control cable, UL, cUL, CE	A 24
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Applications

■ Applications of PVC control and connection cables

PVC control and connection cables are particularly suitable for control devices, e.g. on machine tools, conveyor or assembly lines, transporting equipment, production lines and construction of industrial plants. The cables can be moved after installation, especially for alignment and adjustment as well as inspection of machines, provided that the cables are not mechanically overloaded. Wherever a certain protection against electromagnetic interferences is requested, cables with a tinned copper screen can be used. These cables are not to be used for outdoor installation.

Exemplary applications:

CC 500 CC 600 CC 600 MTW	Construction of service cabinets and control devices, electrical technology, installation and packaging technologies, construction of textile machines, wood working machines and machine tools
CC 500 B	Construction of service cabinets, control devices and machine tools, data processing, packaging machine, textile and wood working machine construction and in cleaning appliances
CC 500 CY (TR) CC 600 CY CC 600 MTW CY	Car manufacturing industry, automation technologies, press and form engineering, machine tools, textile, printing and paper machine construction, iron and steel industries
CC 500 SY (TR)	Packaging and wood working machine construction, press engineering, energy technologies, plastics processing and textile machine construction, electrical technology, beverage racks
CC 600 World CC 600 World CY CC 600 T CC 600 CY T	Machine tool and packaging machine construction, material handling and automation technologies, car manufacturing industry, CNC-machines

■ Applications of PUR/TPE control cables

PUR/TPE control and connection cables are particularly suitable for control devices, e.g. on machine tools, conveyor or assembly lines, transporting equipment and production lines. They can be used at high mechanical loads for fixed installation or flexible applications with free movement, without tensile load and mechanically guided movement in dry, damp and wet rooms. These cables are used wherever abrasion resistance, notch resistance and oil and chemical resistance are strongly requested.

Exemplary applications:

CC 600 P CC 600 CP CC 640 P CC 640 CP CC 550 P CC 550 CP	PUR/TPE outer jacket is very well suited for: machine and industrial plant construction, material handling techniques (e.g. working platforms and transportation systems), car manufacturing industry, handling and automation technologies, iron, steel and chemical industries
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■ Application of control cables with extra chemical resistance

These cables are multi-conductor 600 V control cables with UL recognition, chemical and oil resistant. The reduced outer diameter permits easy handling and installation in confined areas.

Exemplary applications:

CRX 600 CRX 600 C	Industrial painting machinery, water treatment facilities, chemical processing, harsh environments and areas utilizing various cleaning solvents. Control and power supply cables with extra chemical resistance, such as MEK, Acetone, Xylene, Turpentine
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FLEXIBLE CONTROL CABLES

Selection index

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		Cable type																					
		CC 600	CC 600 CY	CC 600 T	CC 600 CY T	CC 600 MTW	CC 600 MTW CY	CC 600 World	CC 600 World CY	CC 500 B	CC 500	CC 500 CY (TR)	CC 500 SY (TR)	CC 600 P	CC 600 CP	CC 640 P	CC 640 CP	CC 550 P	CC 550 CP	CRX 600	CRX 600 C		
Basic construction	Numbered conductors	x	x	x	x	x	x	x	x		x	x	x	x			x	x	x	x			
	Colored conductors									x					x	x							
	Tinned Copper screen		x		x		x		x			x		x		x		x					
	Steel wire protection												x								x		
	Inner jacket									x			x	above 12 AWG								x	
	Transparent outer jacket												x	x									
Temperature range static*	+ 105°C																						
	+ 90°C																						
	+ 80°C																						
	+ 70°C																						
	- 25°C																						
	- 30°C																						
	- 40°C																						
Voltage	Voltage UL-AWM 600 V / CSA 1000 V							x	x														
	Voltage UL 600 V / cUL 1000 V																				x	x	
	Nominal voltage UL/CSA 600 V	x	x	x	x				x	x				x	x	x	x						
	Nominal voltage Uo/U 300/500 V	x	x	x	x				x	x	20-16 AWG	x	x	x	x	x	x	x			x	x	
	Nominal voltage Uo/U 450/750 V										14-1 AWG												
	Testing voltage cond./cond. 2000 V																			x		x	x
	Testing voltage cond./cond. 3000 V	x	x	x	x				x	x	x	x	x	x	x	x	x	x					
	Testing voltage cond./cond. 4000 V					x	x																
	Testing voltage cond./screen 1000 V		x		x					x					x		x				x		x
Testing voltage cond./screen 2000 V								x															
Standards and approvals	Burning characteristics acc. to IEC 60332-1-2 and EN 60332-1-2	x	x	x	x				x	x	x	x	x	x	x	x	x	x	x	x	x	x	
	Burning characteristics acc. to UL VW-1 and acc. to CSA FT1 and FT2	x	x	x	x				x	x					x	x	x	x					
	Burning characteristics acc. to CSA FT1 and FT2					x	x																
	Burning characteristics acc. to UL VW-1, cUL FT1 FT2																				x	x	
	VDE-Reg. no.	x	x									x	x	x									
	UL recognized	x	x	x	x	x	x	x	x						x	x	x	x			x	x	
	cUL recognized																						
	(UL) listed					x	x														x	x	
CSA approved	x	x	x	x	x	x	x	x						x	x	x	x						
Characteristics	Oil resistance acc. to internal standard				x	x				x	x	x	x										
	Oil resistance acc. to DIN VDE	x	x				x	x	x	x						x	x	x	x				
	Oil 60°C																				x	x	
	Oil 60°C acc. to UL	x				x	x							x	x								
	Fuel Oil acc. to CSA	x				x	x																
	Good chemical resistance	x							x	x					x	x			x	x	x	x	
	Impact and crushing test					x	x																
	Machinery area					x	x																
	High mechanical loading capacity				x	x							x	x	x	x	x	x					
Weather resistance																x	x	x	x				

Temperature range:
 from
to

*The temperature range for flexing is mentioned on the particular catalogue page

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



Marking for CC 600 02041840: SAB BRÖCKSKES · D-VIERSEN ·

VDE Reg.-Nr. 7000 40 G 1.0 mm² 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

CC 600 is a multi-conductor, 600 V, 90°C, UL recognized and CSA 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.

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Construction:

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

Outstanding features:

- UL recognized and CSA approved
- high mechanical loading capacity
- oil resistant
- built in acc. VDE-Reg.-Nr. 7000

Technical data:

Nominal voltage:	DIN VDE U ₀ /U 300/500 V	UL/CSA 600 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
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>static:</i> <i>flexing:</i>	DIN VDE -40/+70°C +5/+70°C	UL/CSA: up to +90°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW1, 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	
Chemical resistance:	see page O/11	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm²				
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
02042034	34	0.614	15.6	251
02042041	41	0.665	16.9	287
02042061	61	0.780	19.8	424
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
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
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	mm	cable weight ≈ lbs/mft
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
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
02041834	34	0.728	18.5	380
02041841	41	0.783	19.9	434
02041850	50	0.882	22.4	533
02041861	61	0.933	23.7	654
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
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
02041612	12	0.504	12.8	191
02041615	15	0.563	14.3	229
02041618	18	0.602	15.3	282
02041625	25	0.728	18.5	386
02041630	30	0.760	19.3	453
02041634	34	0.827	21.0	519

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
02041641	41	0.902	22.9	597
02041650	50	0.980	24.9	714
02041661	61	1.051	26.7	891
▶ 14 AWG (≈ 46/30) • 2.50 mm²				
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
02041409	9	0.587	14.9	267
02041412	12	0.618	15.7	299
02041418	18	0.736	18.7	440
02041425	25	0.909	23.1	612
▶ 12 AWG (≈ 52/28) • 4.00 mm²				
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
02041212	12	0.740	18.8	447
▶ 10 AWG (≈ 78/28) • 6.00 mm²				
02041003	3	0.476	12.1	193
02041004	4	0.520	13.2	239
02041005	5	0.587	14.9	303
02041007	7	0.669	17.0	403

Continued on next page

Available with blue conductors (P/N series 0208xxxx).
Go to www.sabcable.com for more detail and specifications.

E-mail: info@sabcable.com



Web site: www.sabcable.com

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

FLEXIBLE CONTROL CABLES



CC 600 Oil resistant 90°C flexible control cable with black conductors

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



Marking for CC 600 02040805:

SAB BRÖCKSKES · D-VIERSEN · CC 600 8 AWG/5c 02040805 AWM Style 21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90°C F 600V FT1 FT2 CE

CC 600 is a multi-conductor, 600 V, 90°C, UL recognized and CSA 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:

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

Outstanding features:

- **UL recognized and CSA approved**
- **high mechanical loading capacity**
- **oil resistant**
- **P/N 2040804 is built in acc. to VDE Reg.-NR. 7000 with class 5 copper strands**

Technical data:

Nominal voltage:	DIN VDE U ₀ /U 300/500 V	UL/CSA 600 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
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>static:</i> <i>flexing:</i>	DIN VDE -40/+70°C +5/+70°C	UL/CSA: up to +90°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW1, 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	
Chemical resistance:	see page O/11	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
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▶ 8 AWG (≈ 69/26)

02040803	3	0.602	15.3	302
02040804	4	0.689	17.5	383
02040805	5	0.744	18.9	468

▶ 6 AWG (≈ 110/26)

02040604	4	0.823	20.9	568
02040605	5	0.929	23.6	651

▶ 4 AWG (≈ 175/26)

02040404	4	1.008	25.6	914
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▶ 2 AWG (≈ 272/26)

02040204	4	1.197	30.4	1349
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▶ 1 AWG (≈ 342/26)

02040104	4	1.307	33.2	1656
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Other dimensions and colors are possible on request.

Available with blue conductors (P/N series 0208xxxx).
Go to www.sabcable.com for more detail and specifications.

E-mail: info@sabcable.com



Web site: www.sabcable.com

FLEXIBLE CONTROL CABLES

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



CC 600 CY Oil resistant 90°C flexible shielded control cable



Oil 90°C 600V CSA AWM I/II A/B 90°C F 600V FT1 FT2

Marking for CC 600 CY 02591804: SAB BRÖCKSKES · D-VIERSEN ·

VDE Reg.-Nr. 7000 4 G 1.0 mm² CC 600 CY 18 AWG/4c 02591804 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 CY is a multi-conductor, 600 V, 90°C, UL recognized and CSA approved, oil resistant flexible shielded control cable. The reduced outer diameter permits easy handling and installation in confined areas. 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. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. CC 600 CY 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:

Conductor:	AWG 20 - AWG 10 bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5 AWG 8 - AWG 1 bare copper strands acc. to UL/CSA
Insulation:	special PVC acc. to DIN VDE and UL/CSA
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	in layers
Inner jacket:	special PVC acc. to DIN VDE and UL/CSA
Screen:	tinned copper braiding
Jacket material:	special oil resistant PVC acc. to DIN VDE and UL/CSA
Jacket color:	gray

Technical data:

Nominal voltage:	DIN VDE U ₀ /U 300/500 V	UL/CSA 600 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2; conductor/screen 1000 V	
Min. bending radius		
<i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
Radiation resistance:	5 x 10 ⁷ cJ/kg	
Temperature range	DIN VDE	UL/CSA: up to +90°C
<i>static:</i>	-40/+70°C	
<i>flexing:</i>	+5/+70°C	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
Oil resistance:	very good - PVC, 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	
Chemical resistance:	see page O/11	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

Outstanding features:

- **UL recognized and CSA approved**
- **high mechanical loading capacity**
- **oil resistant**
- **good EMC characteristics**
- **AWG 20 - AWG 10:**
built in acc. VDE-Reg.-Nr. 7000

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm²					▶ 16 AWG (≈ 27-29/30) • 1.50 mm²					▶ 12 AWG (≈ 52/28) • 4.00 mm²				
02592002	2	0.295	7.5	56	02591602	2	0.350	8.9	83	02591203	3	0.512	13.0	196
02592003	3	0.319	8.1	67	02591603	3	0.382	9.7	102	02591204	4	0.555	14.1	239
02592004	4	0.335	8.5	76	02591604	4	0.406	10.3	121	02591205	5	0.606	15.4	286
02592005	5	0.358	9.1	85	02591605	5	0.433	11.0	139	02591207	7	0.665	16.9	368
02592007	7	0.386	9.8	102	02591607	7	0.472	12.0	170	▶ 10 AWG (≈ 78/28) • 6.00 mm²				
02592010	10	0.469	11.9	148	02591609	9	0.551	14.0	236	02591003	3	0.587	14.9	267
02592012	12	0.476	12.1	151	02591612	12	0.606	15.4	265	02591004	4	0.630	16.0	318
02592025	25	0.657	16.7	282	02591618	18	0.713	18.1	381	02591005	5	0.705	17.9	399
▶ 18 AWG (≈ 30/32) • 1.00 mm²					02591625	25	0.850	21.6	516	02591007	7	0.772	19.6	511
02591802	2	0.331	8.4	73	▶ 14 AWG (≈ 46/30) • 2.50 mm²					▶ 8 AWG (≈ 69/26)				
02591803	3	0.343	8.7	82	02591403	3	0.441	11.2	142	02590804	4	0.807	20.5	531
02591804	4	0.366	9.3	94	02591404	4	0.465	11.8	165	▶ 6 AWG (≈ 110/26)				
02591805	5	0.402	10.2	116	02591405	5	0.512	13.0	198	02590604	4	0.957	24.3	746
02591807	7	0.429	10.9	136	02591407	7	0.567	14.4	252	▶ 4 AWG (≈ 175/26)				
02591809	9	0.535	13.6	195	02591409	9	0.709	18.0	388	02590404	4	1.157	29.4	1144
02591812	12	0.539	13.7	203	02591412	12	0.744	18.9	413	▶ 2 AWG (≈ 272/26)				
02591818	18	0.634	16.1	286	02591418	18	0.874	22.2	585	02590204	4	1.346	34.2	1564
02591825	25	0.752	19.1	395	02591425	25	1.028	26.1	765	▶ 1 AWG (≈ 342/26)				
										02590104	4	1.441	36.6	1882

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com



Web site: www.sabcable.com

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

FLEXIBLE CONTROL CABLES



CC 600 T Oil resistant 105°C flexible control cable



Marking for CC 600 T 02581825: SAB BRÖCKSKES · D-VIERSEN ·

25 G 1.0 mm² CC 600 T 18 AWG/25c 02581825 AWM Style 2586 105°C 600V CSA AWM I/II A/B 105°C 600V FT1 FT2 CE

CC 600 T is a multi-conductor, 600 V, 105°C, UL recognized and CSA approved, flexible control cable. The reduced outer diameter permits easy handling and installation in confined areas. CC 600 T 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:

Conductor:	AWG 20 - AWG 10 bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5 AWG 8 - AWG 1 bare copper strands acc. to UL/CSA
Insulation:	special heat resistant PVC
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	in layers
Jacket material:	special heat resistant PVC
Jacket color:	gray

Outstanding features:

- UL recognized and CSA approved
- temperature range up to + 105°C

Technical data:

Nominal voltage:	DIN VDE U _o /U 300/500 V	UL/CSA 600 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
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>static:</i>	DIN VDE -40/+90°C	UL/CSA: up to +105°C
<i>flexing:</i>	+5/+90°C	
<i>short-time use:</i>	+105°C	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
Oil resistance:	acc. to internal standard, see page O/29	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm²				
02582002	2	0.205	5.2	26
02582003	3	0.220	5.6	31
02582004	4	0.236	6.0	37
02582005	5	0.264	6.7	47
02582007	7	0.287	7.3	58
02582008	8	0.339	8.6	69
02582009	9	0.362	9.2	78
02582010	10	0.370	9.4	83
02582012	12	0.382	9.7	94
02582014	14	0.402	10.2	107
02582016	16	0.429	10.9	123
02582018	18	0.453	11.5	138
02582025	25	0.547	13.9	185
▶ 19 AWG (≈ 23/32) • 0.75 mm²				
02581903	3	0.244	6.2	40
02581904	4	0.260	6.6	45
02581905	5	0.291	7.4	59
02581907	7	0.323	8.2	75
02581908	8	0.378	9.6	97
02581909	9	0.402	10.2	96
02581910	10	0.417	10.6	108
02581912	12	0.429	10.9	123
02581914	14	0.453	11.5	140
02581916	16	0.480	12.2	160
02581918	18	0.512	13.0	180
02581925	25	0.618	15.7	242

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
02581802	2	0.236	6.0	37
02581803	3	0.252	6.4	45
02581804	4	0.272	6.9	52
02581805	5	0.307	7.8	70
02581807	7	0.339	8.6	88
02581808	8	0.394	10.0	103
02581809	9	0.417	10.6	111
02581810	10	0.433	11.0	125
02581812	12	0.449	11.4	144
02581814	14	0.476	12.1	165
02581818	18	0.535	13.6	212
02581825	25	0.657	16.7	286
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
02581602	2	0.260	6.6	46
02581603	3	0.280	7.1	58
02581604	4	0.303	7.7	69
02581605	5	0.343	8.7	91
02581607	7	0.378	9.6	116
02581608	8	0.433	11.0	136
02581609	9	0.472	12.0	148
02581610	10	0.488	12.4	166
02581612	12	0.508	12.9	193
02581614	14	0.535	13.6	220
02581616	16	0.567	14.4	251
02581618	18	0.602	15.3	282
02581625	25	0.732	18.6	389

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 14 AWG (≈ 46/30) • 2.50 mm²				
02581402	2	0.319	8.1	72
02581403	3	0.343	8.7	91
02581404	4	0.366	9.3	106
02581405	5	0.417	10.6	141
02581407	7	0.461	11.7	180
02581408	8	0.543	13.8	214
02581409	9	0.579	14.7	231
02581410	10	0.598	15.2	260
02581412	12	0.622	15.8	301
02581418	18	0.740	18.8	444
02581425	25	0.909	23.1	612
▶ 12 AWG (≈ 52/28) • 4.00 mm²				
02581203	3	0.402	10.2	143
02581204	4	0.437	11.1	157
02581205	5	0.496	12.6	222
02581207	7	0.547	13.9	294
▶ 10 AWG (≈ 78/28) • 6.00 mm²				
02581003	3	0.476	12.1	193
02581004	4	0.524	13.3	241
02581005	5	0.587	14.9	303
▶ 8 AWG (≈ 69/26)				
02580804	4	0.669	17.0	374
02580805	5	0.744	18.9	454
▶ 6 AWG (≈ 110/26)				
02580604	4	0.823	20.9	507
▶ 4 AWG (≈ 175/26)				
02580404	4	1.008	25.6	897
▶ 2 AWG (≈ 272/26)				
02580204	4	1.197	30.4	1379
▶ 1 AWG (≈ 342/26)				
02580104	4	1.307	33.2	1628
02580105	5	1.461	37.1	2035

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com



Web site: www.sabcable.com

FLEXIBLE CONTROL CABLES

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



CC 600 CY T Oil resistant 105°C flexible shielded control cable



600V CSA AWM I/II A/B 105°C 600V FT1 FT2

Marking for CC 600 CY T 02781804: SAB BRÖCKSKES · D-VIERSEN ·

4 G 1.0 mm² CC 600 CY T 18 AWG/4c 02781804 AWM Style 2586 105°C 600V CSA AWM I/II A/B 105°C 600V FT1 FT2

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CC 600 CY T is a multi-conductor, 600 V, 105°C, UL recognized and CSA approved flexible shielded control cable. The reduced outer diameter permits easy handling and installation in confined areas. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. CC 600 CY T 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:

Conductor:	AWG 20 - AWG 10 bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5 AWG 8 - AWG 2 bare copper strands acc. to UL/CSA
Insulation:	special heat resistant PVC
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	in layers with PETP foil over the outer layer
Screen:	tinned copper braiding
Jacket material:	special heat resistant PVC
Jacket color:	gray

Outstanding features:

- UL recognized and CSA approved
- temperature range up to + 105°C
- good EMC characteristics

Technical data:

Nominal voltage:	DIN VDE Uo/U 300/500 V	UL/CSA 600 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2; conductor/screen: 1000 V	
Min. bending radius		
<i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
Radiation resistance:	8 x 10 ⁷ cJ/kg	
Temperature range	DIN VDE	UL/CSA: up to +105°C
<i>static:</i>	-40/+90°C	
<i>flexing:</i>	+5/+90°C	
<i>short-time use:</i>	+105°C	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
Oil resistance:	acc. to internal standard, see page O/29	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm²				
02782002	2	0.228	5.8	30
02782003	3	0.244	6.2	37
02782004	4	0.268	6.8	50
02782007	7	0.319	8.1	72
02782009	9	0.374	9.5	88
02782012	12	0.417	10.6	119
02782015	15	0.457	11.6	142
02782025	25	0.575	14.6	216
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
02781802	2	0.268	6.8	45
02781803	3	0.280	7.1	54
02781804	4	0.311	7.9	68
02781805	5	0.335	8.5	81
02781807	7	0.370	9.4	102
02781809	9	0.445	11.3	125
02781812	12	0.480	12.2	165
02781815	15	0.535	13.6	206
02781818	18	0.563	14.3	233
02781825	25	0.681	17.3	327
02781850	50	0.906	23.0	599

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
02781602	2	0.291	7.4	54
02781603	3	0.315	8.0	69
02781604	4	0.339	8.6	85
02781605	5	0.374	9.5	103
02781607	7	0.406	10.3	132
02781609	9	0.500	12.7	175
02781612	12	0.539	13.7	214
02781615	15	0.598	15.2	269
02781618	18	0.630	16.0	303
02781625	25	0.772	19.6	436
02781650	50	1.020	25.9	805
▶ 14 AWG (≈ 46/30) • 2.50 mm²				
02781403	3	0.374	9.5	100
02781404	4	0.402	10.2	126
02781405	5	0.445	11.3	152
02781407	7	0.492	12.5	196
02781409	9	0.614	15.6	249
02781412	12	0.654	16.6	324
02781418	18	0.780	19.8	482
02781425	25	0.941	23.9	658

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 12 AWG (≈ 52/28) • 4.00 mm²				
02781203	3	0.437	11.1	144
02781204	4	0.480	12.2	179
02781205	5	0.531	13.5	235
02781207	7	0.575	14.6	285
▶ 10 AWG (≈ 78/28) • 6.00 mm²				
02781003	3	0.504	12.8	197
02781004	4	0.555	14.1	252
02781005	5	0.614	15.6	309
▶ 8 AWG (≈ 69/26)				
02780804	4	0.705	17.9	405
▶ 6 AWG (≈ 110/26)				
02780604	4	0.886	22.5	648
▶ 4 AWG (≈ 175/26)				
02780404	4	1.087	27.6	911
▶ 2 AWG (≈ 272/26)				
02780204	4	1.240	31.5	1271
▶ 1 AWG (≈ 342/26)				
02780104	4	1.335	33.9	1573

Other dimensions and colors are possible on request.



FLEXIBLE CONTROL CABLES



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

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



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

5 G 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 approved, oil resistant flexible control cable. Also, it is a UL MTW 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:	AWG 20 - AWG 10 bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5 AWG 8 - AWG 2 bare copper strands acc. to UL/CSA
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:	(UL) / CSA: -25/+90°C
<i>storage ambient:</i>	-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 O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG (≈ 30/32) • 1.00 mm²					▶ 16 AWG (≈ 27-29/30) • 1.50 mm²					▶ 10 AWG (≈ 78/28) • 6.00 mm²				
35501803	3	0.303	7.7	58	35501612	12	0.571	14.5	210	35501003	3	0.488	12.4	188
35501804	4	0.327	8.3	69	35501616	16	0.630	16.0	267	35501004	4	0.563	14.3	253
35501805	5	0.358	9.1	83	35501618	18	0.661	16.8	295	35501005	5	0.614	15.6	298
35501807	7	0.386	9.8	101	35501619	19	0.661	16.8	304	35501007	7	0.669	17.0	385
35501809	9	0.469	11.9	130	35501625	25	0.783	19.9	390	▶ 8 AWG (≈ 69/26)				
35501812	12	0.496	12.6	1583	35501627	27	0.783	19.9	414	35500804	4	0.713	18.1	396
35501816	16	0.575	14.6	208	35501637	37	0.917	23.3	579	35500805	5	0.783	19.9	476
35501818	18	0.602	15.3	224	35501641	41	0.984	25.0	643	▶ 6 AWG (≈ 110/26)				
35501819	19	0.602	15.3	237	35501650	50	1.067	27.1	757	35500604	4	0.898	22.8	618
35501825	25	0.713	18.1	302	35501661	61	1.134	28.8	898	35500605	5	0.988	25.1	746
35501827	27	0.713	18.1	314	▶ 14 AWG (≈ 46/30) • 2.50 mm²					▶ 4 AWG (≈ 175/26)				
35501837	37	0.791	20.1	417	35501403	3	0.366	9.3	96	35500404	4	1.079	27.4	936
35501850	50	0.969	24.6	583	35501404	4	0.394	10.0	116	35500405	5	1.193	30.3	1132
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²					35501405	5	0.429	10.9	136	▶ 2 AWG (≈ 272/26)				
35501603	3	0.331	8.4	72	35501407	7	0.469	11.9	173	35500204	4	1.252	31.8	1189
35501604	4	0.358	9.1	86	35501409	9	0.606	15.4	243	35500205	5	1.386	35.2	1611
35501605	5	0.386	9.8	99	35501412	12	0.634	16.1	292	▶ 1 AWG (≈ 342/26)				
35501607	7	0.421	10.7	125	35501418	18	0.740	18.8	412	35500104	4	1.350	34.3	1632
35501608	8	0.484	12.3	149	35501425	25	0.925	23.5	590	Other dimensions and colors are possible on request.				
35501609	9	0.516	13.1	167	▶ 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					

FLEXIBLE CONTROL CABLES

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



Marking for CC 600 MTW CY 35601404: SAB BRÖCKSKES · D-VIERSEN · 4 G 2.50 mm²
 CC 600 MTW CY 14 AWG/4c 35601404 (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 CY is a multi-conductor, 600 V, 90°C, UL recognized, CSA approved, oil resistant flexible shielded control cable. Also, it is a UL MTW 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. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. CC 600 MTW CY 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.

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Construction:

Conductor:	AWG 20 - AWG 10 bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5 AWG 8 - AWG 2 bare copper strands acc. to UL/CSA
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with consecutive numbers; green-yellow earth wire from 3 conductors
Stranding:	in layers
Wrapping:	non-woven tapes
Screen:	tinned copper braiding
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:	conductor/conductor 4000 V conductor/screen 2000 V
Min. bending radius	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range:	(UL) / CSA: -25/+90°C
<i>storage ambient:</i>	-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 O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG (≈ 30/32) • 1.00 mm²					▶ 16 AWG (≈ 27-29/30) • 1.50 mm²					▶ 10 AWG (≈ 78/28) • 6.00 mm²				
35601803	3	0.303	7.7	56	35601612	12	0.571	14.5	210	35601003	3	0.488	12.4	188
35601804	4	0.327	8.3	67	35601616	16	0.630	16.0	267	35601004	4	0.559	14.2	246
35601805	5	0.354	9.0	79	35601618	18	0.661	16.8	295	35601005	5	0.614	15.6	298
35601807	7	0.386	9.8	98	35601619	19	0.661	16.8	304	35601007	7	0.669	17.0	385
35601809	9	0.469	11.9	130	35601625	25	0.783	19.9	390	▶ 8 AWG (≈ 69/26)				
35601812	12	0.492	12.5	153	35601627	27	0.783	19.9	414	35600804	4	0.760	19.3	458
35601816	16	0.575	14.6	208	35601637	37	0.917	23.3	579	35600805	5	0.874	22.2	585
35601818	18	0.602	15.3	224	35601641	41	0.984	25.0	643	▶ 6 AWG (≈ 110/26)				
35601819	19	0.602	15.3	237	35601650	50	1.067	27.1	757	35600604	4	0.945	24.0	692
35601825	25	0.713	18.1	302	35601661	61	1.134	28.8	898	35600605	5	1.020	25.9	831
35601827	27	0.713	18.1	314	▶ 14 AWG (≈ 46/30) • 2.50 mm²					▶ 4 AWG (≈ 175/26)				
35601837	37	0.791	20.1	417	35601403	3	0.362	9.2	93	35600404	4	1.126	28.6	1022
35601850	50	0.969	24.6	583	35601404	4	0.394	10.0	113	35600405	5	1.240	31.5	1235
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²					35601405	5	0.429	10.9	136	▶ 2 AWG (≈ 272/26)				
35601603	3	0.327	8.3	69	35601407	7	0.469	11.9	173	35600204	4	1.299	33.0	1434
35601604	4	0.354	9.0	83	35601409	9	0.606	15.4	243	35600205	5	1.433	36.4	1730
35601605	5	0.386	9.8	99	35601412	12	0.634	16.1	292	▶ 1 AWG (≈ 342/26)				
35601607	7	0.421	10.7	125	35601418	18	0.740	18.8	412	35600104	4	1.398	35.5	1576
35601608	8	0.484	12.3	149	35601425	25	0.925	23.5	590	Other dimensions and colors are possible on request.				
35601609	9	0.516	13.1	167	▶ 12 AWG (≈ 52/28) • 4.00 mm²									
					35601203	3	0.413	10.5	130					
					35601204	4	0.449	11.4	160					
					35601205	5	0.492	12.5	194					
					35601207	7	0.567	14.4	265					

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 18G 0.5 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 international approvals. CC 600 World control cables are designed for use in all electrical equipment in dry, damp and wet conditions. 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. 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:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	PVC, Tl2 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
Stranding:	in layers
Jacket material:	PVC, TM5 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	gray

Outstanding features:

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

Technical data:

Nominal voltage:	DIN VDE Uo/U 300/500 V	UL/CSA 600 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
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>static:</i>	DIN VDE -40/+70°C	UL/CSA: up to +90°C
<i>flexing:</i>	+5/+70°C	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW1, CSA FT1 and FT2	
Oil resistance:	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1	
Chemical resistance:	see page O/11	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm²				
02512003	3	0.256	6.5	40
02512004	4	0.283	7.2	50
02512005	5	0.311	7.9	61
02512007	7	0.374	9.5	87
02512009	9	0.433	11.0	103
02512012	12	0.453	11.5	122
02512018	18	0.543	13.8	181
▶ 19 AWG (≈ 23/32) • 0.75 mm²				
02511903	3	0.280	7.1	49
02511904	4	0.311	7.9	60
02511905	5	0.315	8.0	65
02511907	7	0.409	10.4	106
02511909	9	0.480	12.2	127
02511912	12	0.508	12.9	154
02511918	18	0.602	15.3	224

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
02511803	3	0.291	7.4	56
02511804	4	0.319	8.1	68
02511805	5	0.358	9.1	86
02511807	7	0.425	10.8	120
02511809	9	0.500	12.7	143
02511812	12	0.524	13.3	175
02511818	18	0.626	15.9	258
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
02511603	3	0.331	8.4	75
02511604	4	0.374	9.5	95
02511605	5	0.417	10.6	119
02511607	7	0.504	12.8	169
02511609	9	0.591	15.0	194
02511612	12	0.618	15.7	247
02511618	18	0.740	18.8	364

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 14 AWG (≈ 46/30) • 2.50 mm²				
02511403	3	0.398	10.1	112
02511404	4	0.445	11.3	140
02511405	5	0.492	12.5	173
02511407	7	0.591	15.0	247
02511409	9	0.689	17.5	282
02511412	12	0.732	18.6	367
02511418	18	0.890	22.6	552

Other dimensions and colors are possible on request.

FLEXIBLE CONTROL CABLES

CC 600 World CY Oil resistant flexible shielded control cable with international standards



Marking for CC 600 World CY 02562018: SAB BRÖCKSKES · D-VIERSEN · <VDE> <HAR> H05VV4V5-K 02561805 18G 0.5 mm² CC 600 World CY 20 AWG/18c 02562018 AWM Style 21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90°C F 600V FT1 FT2 CE

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CC 600 World CY is a multi-conductor, 600 V, 90°C oil resistant shielded cable with international approvals, to be used on machinery and equipment for use in North America and for worldwide export. 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 World CY 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. The overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. For use in North America and Europe.

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
Stranding:	in layers
Inner jacket:	PVC, TM2 acc. to DIN VDE 0281 part 1, + HD 21.1
Screen:	tinned copper braiding
Jacket material:	PVC, TM5 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	gray

Outstanding features:

- good EMC characteristics
- flexible
- oil resistant
- UL, CSA, VDE and HAR standardized

Technical data:

Nominal voltage:	DIN VDE U _o /U 300/500 V	UL/CSA 600 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2; conductor/screen 1000 V	
Min. bending radius		
<i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
Radiation resistance:	8 x 10 ⁷ cJ/kg	
Temperature range	DIN VDE	UL/CSA: up to +90°C
<i>static:</i>	-40/+70°C	
<i>flexing:</i>	+5/+70°C	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW1, CSA FT1 and FT2	
Oil resistance:	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1	
Chemical resistance:	see page O/11	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm²				
02562003	3	0.358	9.1	81
02562004	4	0.390	9.9	100
02562005	5	0.417	10.6	113
02562007	7	0.480	12.2	144
02562009	9	0.535	13.6	169
02562012	12	0.567	14.4	196
02562018	18	0.665	16.9	286
▶ 19 AWG (≈ 23/32) • 0.75 mm²				
02561903	3	0.390	9.9	101
02561904	4	0.417	10.6	114
02561905	5	0.449	11.4	131
02561907	7	0.520	13.2	174
02561909	9	0.591	15.0	208
02561912	12	0.630	16.0	249
02561918	18	0.724	18.4	339

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
02561803	3	0.398	10.1	108
02561804	4	0.413	10.5	116
02561805	5	0.461	11.7	142
02561807	7	0.535	13.6	190
02561809	9	0.602	15.3	228
02561812	12	0.650	16.5	284
02561818	18	0.752	19.1	379
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
02561603	3	0.437	11.1	130
02561604	4	0.480	12.2	154
02561605	5	0.524	13.3	186
02561607	7	0.626	15.9	263
02561609	9	0.705	17.9	298
02561612	12	0.744	18.9	360
02561618	18	0.886	22.5	526

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 14 AWG (≈ 46/30) • 2.50 mm²				
02561403	3	0.508	12.9	179
02561404	4	0.543	13.8	206
02561405	5	0.610	15.5	264
02561407	7	0.713	18.1	360
02561409	9	0.811	20.6	405
02561412	12	0.878	22.3	519
02561418	18	1.016	25.8	716

Other dimensions and colors are possible on request.

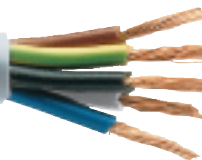
FLEXIBLE CONTROL CABLES



CC 500 B Flexible power control cable with colored conductors



BRÖCKSKES · D-VIERSEN · CC 500 B 5 G 1.0 mm² CE



Marking for CC 500 B 02050510:

SAB BRÖCKSKES · D-VIERSEN · CC 500 B 5 G 1.0 mm² CE

CC 500 B 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 IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	PVC, Tl2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	colored acc. to HD 308 (VDE 0293 part 308); 7 conductor: black conductors with consecutive numbers plus green-yellow earth wire
Stranding:	in layers
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	gray

Outstanding features:

- flexible
- colored conductors
- small bending radius

Technical data:

Nominal voltage:	20 - 16 AWG: U _o /U 300/500 V 14 - 1 AWG: U _o /U 450/750 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
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 60332-1-2 + EN 60332-1-2
Oil resistance:	acc. to internal standard, see page O/29
Chemical resistance:	see page O/11
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors incl. ground	nominal outer-Ø inch	mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm²				
02050205	2	0.189	4.8	22
02050305	3	0.201	5.1	27
02050405	4	0.217	5.5	32
02050505	5	0.244	6.2	41
02050705	7	0.264	6.7	50
▶ 19 AWG (≈ 23/32) • 0.75 mm²				
02050207	2	0.220	5.6	31
02050307	3	0.224	5.7	35
02050407	4	0.244	6.2	43
02050507	5	0.264	6.7	52
02050707	7	0.295	7.5	67
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
02050210	2	0.217	5.5	32
02050310	3	0.240	6.1	42
02050410	4	0.256	6.5	50
02050510	5	0.280	7.1	62
02050710	7	0.315	8.0	81

item no.	no. of conductors incl. ground	nominal outer-Ø inch	mm	cable weight ≈ lbs/mft
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
02050215	2	0.244	6.2	43
02050315	3	0.256	6.5	53
02050415	4	0.299	7.6	69
02050515	5	0.315	8.0	81
02050715	7	0.350	8.9	108
▶ 14 AWG (≈ 46/30) • 2.50 mm²				
02050225	2	0.346	8.8	81
02050325	3	0.374	9.5	101
02050425	4	0.417	10.6	128
02050525	5	0.457	11.6	156
02050725	7	0.504	12.8	200
▶ 12 AWG (≈ 52/28) • 4.00 mm²				
02050340	3	0.425	10.8	143
02050440	4	0.472	12.0	179
02050540	5	0.516	13.1	220

item no.	no. of conductors incl. ground	nominal outer-Ø inch	mm	cable weight ≈ lbs/mft
▶ 10 AWG (≈ 78/28) • 6.00 mm²				
02050360	3	0.500	12.7	204
02050460	4	0.555	14.1	256
02050560	5	0.618	15.7	313
02050760	7	0.681	17.3	412
▶ 8 AWG (≈ 77/26) • 10.00 mm²				
02050361	3	0.622	15.8	331
02050461	4	0.701	17.8	421
02050561	5	0.776	19.7	526
▶ 6 AWG (≈ 122/26) • 16.00 mm²				
02050462	4	0.831	21.1	628
▶ 4 AWG (≈ 190/26) • 25.00 mm²				
02050463	4	1.004	25.5	978
▶ 2 AWG (≈ 272/26) • 35.00 mm²				
02050464	4	1.134	28.8	1329
▶ 1 AWG (≈ 400/26) • 50.00 mm²				
02050465	4	1.362	34.6	1861

Other dimensions and colors are possible on request.

FLEXIBLE CONTROL CABLES

CC 500 Flexible control cable with numbered conductors



Marking for CC 500 02005005:

SAB BRÖCKSKES · D-VIERSEN · ÖZ-J VDE-Reg.-Nr. 7000 CC 500 50 G 0.5 mm² C

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 IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	PVC, Tl2 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
Stranding:	in layers
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	gray

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 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 60332-1-2 + EN 60332-1-2
Oil resistance:	acc. to internal standard, see page O/29
Chemical resistance:	see page O/11
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:	
➤	flexible
➤	numbered conductors
➤	small bending radius

item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm ²				
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
▶ 19 AWG (≈ 23/32) • 0.75 mm ²				
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

item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG (≈ 30/32) • 1.00 mm ²				
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
▶ 16 AWG (≈ 27-29/30) • 1.50 mm ²				
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

item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft
▶ 14 AWG (≈ 46/30) • 2.50 mm ²				
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 mm ²				
02000340	3	0.402	10.2	132
02000440	4	0.445	11.3	166
02000540	5	0.496	12.6	205
▶ 10 AWG (≈ 78/28) • 6.00 mm ²				
02000360	3	0.476	12.1	192
02000460	4	0.520	13.2	237
02000560	5	0.587	14.9	298
▶ 8 AWG (≈ 77/26) • 10.00 mm ²				
02000461	4	0.673	17.1	403
02000561	5	0.760	19.3	504
▶ 6 AWG (≈ 122/26) • 16.00 mm ²				
02000462	4	0.831	21.1	617
02000562	5	0.929	23.6	765
▶ 4 AWG (≈ 190/26) • 25.00 mm ²				
02000463	4	1.004	25.5	966
02000563	5	1.126	28.6	1212
▶ 2 AWG (≈ 272/26) • 35.00 mm ²				
02000464	4	1.161	29.5	1334
02000564	5	1.295	32.9	1669
▶ 1 AWG (≈ 400/26) • 50.00 mm ²				
02000465	4	1.335	33.9	1824

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com



Web site: www.sabcable.com

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FLEXIBLE CONTROL CABLES



CC 500 CY (TR) Shielded flexible control cable with black conductors



VDE-Reg.-Nr. 7000 CC 500 CY (TR) 4 G 1.0 mm² CE



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Marking for CC 500 CY (TR) 02440410:

SAB BRÖCKSKES · D-VIERSEN · ÖZCuY-J (TR) VDE-Reg.-Nr. 7000 CC 500 CY (TR) 4 G 1.0 mm² CE

CC 500 CY is a multi-conductor, shielded, flexible power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. 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
Stranding:	in layers
Inner jacket:	PVC, TM2 acc. to DIN VDE 0281 part 1 HD + 21.1
Screen:	tinned copper braiding
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 HD + 21.1
Jacket color:	transparent

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; conductor/screen 1000 V
Min. bending radius	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range	
<i>static:</i>	-40/+70°C
<i>flexing:</i>	+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 O/29
Chemical resistance:	see page O/11
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:

- good EMC characteristics
- flexible
- high mechanical loading capacity

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm²				
02440205	2	0.287	7.3	48
02440305	3	0.307	7.8	56
02440405	4	0.319	8.1	62
02440505	5	0.343	8.7	72
02440705	7	0.374	9.5	87
02441205	12	0.476	12.1	141
02441805	18	0.551	14.0	190
02442505	25	0.654	16.6	261
02443405	34	0.720	18.3	326
02444205	42	0.776	19.7	388
02445005	50	0.839	21.3	440
02446105	61	0.890	22.6	513
▶ 19 AWG (≈ 23/32) • 0.75 mm²				
02440207	2	0.319	8.1	67
02440307	3	0.331	8.4	75
02440407	4	0.358	9.1	85
02440507	5	0.382	9.7	101
02440707	7	0.417	10.6	120
02441207	12	0.539	13.7	178
02441807	18	0.626	15.9	243
02442507	25	0.740	18.8	343
02443407	34	0.827	21.0	435
02444207	42	0.874	22.2	512
02445007	50	0.953	24.2	587
02446107	61	1.012	25.7	687

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
02440210	2	0.327	8.3	73
02440310	3	0.339	8.6	81
02440410	4	0.370	9.4	97
02440510	5	0.394	10.0	111
02440710	7	0.437	11.1	136
02441210	12	0.563	14.3	204
02441810	18	0.650	16.5	284
02442510	25	0.772	19.6	392
02443410	34	0.854	21.7	507
02444210	42	0.909	23.1	597
02445010	50	0.992	25.2	685
02446110	61	1.063	27.0	798

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
02440215	2	0.358	9.1	83
02440315	3	0.374	9.5	98
02440415	4	0.398	10.1	113
02440515	5	0.441	11.2	140
02440715	7	0.480	12.2	167
02441215	12	0.622	15.8	265
02441815	18	0.728	18.5	376
02442515	25	0.854	21.7	513
02443415	34	0.953	24.2	650
02444215	42	1.016	25.8	777
02445015	50	1.118	28.4	914
02446115	61	1.185	30.1	1067
▶ 14 AWG (≈ 46/30) • 2.50 mm²				
02440325	3	0.441	11.2	140
02440425	4	0.476	12.1	164
02440525	5	0.520	13.2	197
02440725	7	0.575	14.6	249
02441225	12	0.744	18.9	408
02441825	18	0.862	21.9	569

Other dimensions and colors are possible on request.

FLEXIBLE CONTROL CABLES

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



VDE-Reg.-Nr. 7000 CC 500 SY (TR) 4 G 0.5 mm² CE

Marking for CC 500 SY (TR) 02180405:

SAB BRÖCKSKES · D-VIERSEN · ÖSYZ-J (TR) VDE-Reg.-Nr. 7000 CC 500 SY (TR) 4 G 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.

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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:	transparent

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>	5 x O.D.
<i>free movement:</i>	10 x O.D.
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range	
<i>static:</i>	-40/+70°C
<i>flexing:</i>	+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 O/29
Chemical resistance:	see page O/11
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:

- flexible
- high mechanical loading capacity

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm²				
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
▶ 19 AWG (≈ 23/32) • 0.75 mm²				
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

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
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
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
02180215	2	0.366	9.3	79
02180315	3	0.382	9.7	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

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 14 AWG (≈ 46/30) • 2.50 mm²				
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
▶ 12 AWG (≈ 52/28) • 4.00 mm²				
02180340	3	0.512	13.0	180
02180440	4	0.563	14.3	226
02180540	5	0.610	15.5	270
▶ 10 AWG (≈ 78/28) • 6.00 mm²				
02180460	4	0.646	16.4	310
02180560	5	0.701	17.8	372
▶ 8 AWG (≈ 77/26) • 10.00 mm²				
02180461	4	0.799	20.3	491
02180561	5	0.882	22.4	605
▶ 6 AWG (≈ 122/26) • 16.00 mm²				
02180462	4	0.957	24.3	719
02180562	5	1.063	27.0	895
▶ 4 AWG (≈ 190/26) • 25.00 mm²				
02180463	4	1.138	28.9	1097
02180563	5	1.276	32.4	1386
▶ 2 AWG (≈ 272/26) • 35.00 mm²				
02180464	4	1.311	33.3	1506
02180564	5	1.449	36.8	1859

Other dimensions and colors are possible on request.

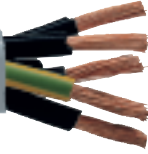
also available
with blue and red
conductors and black
or orange jacket

FLEXIBLE CONTROL CABLES



CC 600 P Oil resistant, tear resistant, flexible TPE control cable with black conductors

Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE



Marking for CC 600 P 02611805: SAB BRÖCKSKES · D-VIERSEN ·

02610510 5 G 1.0 mm² CC 600 P 18 AWG/5c 02611805 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

CC 600 P is a multi-conductor, 600 V, 80°C oil resistant control cable. The specially blended TPE outer jacket provides excellent chemical and abrasion resistance as well as being tear resistant with low flame propagation. For use in harsh environments.

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
Stranding:	in layers, 2 conductors and > 8 conductors wrapping with non-woven tape over the outer layer
Inner jacket:	above 12 AWG: PVC TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket material:	PU acc. to UL 758
Jacket color:	gray

Outstanding features:

- oil resistant
- abrasion resistant
- notch resistant
- good chemical resistance

Technical data:

Nominal voltage:	DIN VDE U _o /U 300/500 V	UL/CSA 600 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
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:	5 x 10 ⁷ cJ/kg	
Temperature range <i>static:</i>	DIN VDE -40/+70°C	UL/CSA: up to +80°C
<i>flexing:</i>	+5/+70°C	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
Oil resistance:	very good - oil rating 60°C acc. to UL 1581	
Chemical resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

item no.	no. of conductors incl. ground	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm²				
02612002	2	0.244	6.2	32
02612003	3	0.252	6.4	38
02612004	4	0.268	6.8	44
02612005	5	0.291	7.4	53
02612007	7	0.311	7.9	65
02612009	9	0.374	9.5	81
02612012	12	0.398	10.1	97
02612018	18	0.457	11.6	136
02612025	25	0.539	13.7	178
02612030	30	0.555	14.1	206
02612034	34	0.598	15.2	233
02612042	42	0.654	16.6	290
02612050	50	0.709	18.0	331

item no.	no. of conductors incl. ground	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
02611802	2	0.272	6.9	43
02611803	3	0.280	7.1	51
02611804	4	0.303	7.7	61
02611805	5	0.327	8.3	74
02611807	7	0.378	9.6	99
02611809	9	0.429	10.9	116
02611812	12	0.453	11.5	139
02611818	18	0.528	13.4	200
02611825	25	0.630	16.0	267
02611830	30	0.657	16.7	312
02611834	34	0.709	18.0	355
02611842	42	0.756	19.2	431
02611850	50	0.886	22.5	542

item no.	no. of conductors incl. ground	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
02611602	2	0.295	7.5	53
02611603	3	0.307	7.8	65
02611604	4	0.331	8.4	78
02611605	5	0.358	9.1	94
02611607	7	0.417	10.6	128
02611609	9	0.480	12.2	151
02611612	12	0.504	12.8	182
02611618	18	0.587	14.9	263
02611625	25	0.709	18.0	360
02611630	30	0.732	18.6	420
02611634	34	0.791	20.1	528
02611642	42	0.902	22.9	629
02611650	50	0.984	25.0	726

item no.	no. of conductors incl. ground	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft
▶ 14 AWG (≈ 46/30) • 2.50 mm²				
02611402	2	0.343	8.7	75
02611403	3	0.358	9.1	94
02611404	4	0.386	9.8	114
02611405	5	0.421	10.7	140
02611407	7	0.496	12.6	194
02611409	9	0.587	14.9	235
02611412	12	0.602	15.3	277
02611418	18	0.717	18.2	412
02611425	25	0.913	23.2	595

▶ 12 AWG (≈ 52/28) • 4.00 mm²				
02611203	3	0.469	11.9	157
02611204	4	0.512	13.0	194
02611205	5	0.547	13.9	230
▶ 10 AWG (≈ 78/28) • 6.00 mm²				
02611004	4	0.579	14.7	264
02611005	5	0.634	16.1	324
▶ 8 AWG (≈ 77/26) • 10.00 mm²				
02610804	4	0.728	18.5	433

Other dimensions and colors are possible on request.

FLEXIBLE CONTROL CABLES

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



CC 600 CP Oil resistant, tear resistant, flexible TPE control cable with black conductors



600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

Marking for CC 600 CP 02811825: SAB BRÖCKSKES · D-VIERSEN ·

02812510 25 G 1.0 mm² CC 600 CP 18 AWG/25c 02811825 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

CC 600 CP is a multi-conductor, 600 V, 80°C oil resistant shielded control cable. The specially blended TPE outer jacket provides excellent chemical and abrasion resistance as well as being tear resistant with low flame propagation. The overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. For use in harsh environments.

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Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	PVC, Tl2 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
Stranding:	in layers
Wrapping:	PETP foil
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PU acc. to UL 758
Jacket color:	gray

Technical data:

Nominal voltage:	DIN VDE U ₀ /U 300/500 V	UL/CSA 600 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 1000 V	
Min. bending radius		
<i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
Radiation resistance:	5 x 10 ⁷ cJ/kg	
Temperature range	DIN VDE	UL/CSA: up to +80°C
<i>static:</i>	-40/+70°C	
<i>flexing:</i>	+5/+70°C	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
Oil resistance:	very good - oil rating 60°C acc. to UL 1581	
Chemical resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

Outstanding features:

- oil resistant
- abrasion resistant
- notch resistant
- good chemical resistance

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm²				
02812002	2	0.264	6.7	42
02812003	3	0.276	7.0	47
02812004	4	0.291	7.4	54
02812005	5	0.315	8.0	64
02812007	7	0.335	8.5	75
02812009	9	0.386	9.8	86
02812012	12	0.417	10.6	112
02812018	18	0.488	12.4	165
02812025	25	0.567	14.4	211
▶ 19 AWG (≈ 23/32) • 0.75 mm²				
02811902	2	0.283	7.2	48
02811903	3	0.295	7.5	55
02811904	4	0.315	8.0	64
02811905	5	0.339	8.6	75
02811907	7	0.390	9.9	99
02811909	9	0.441	11.2	120
02811912	12	0.465	11.8	147
02811918	18	0.531	13.5	200
02811925	25	0.646	16.4	278

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
02811802	2	0.291	7.4	53
02811803	3	0.303	7.7	61
02811804	4	0.327	8.3	72
02811805	5	0.350	8.9	85
02811807	7	0.402	10.2	113
02811809	9	0.457	11.6	135
02811812	12	0.480	12.2	167
02811818	18	0.555	14.1	233
02811825	25	0.669	17.0	324
02811850	50	0.917	23.3	602
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
02811603	3	0.331	8.4	75
02811604	4	0.354	9.0	89
02811605	5	0.382	9.7	107
02811607	7	0.449	11.4	151
02811609	9	0.508	12.9	173
02811612	12	0.531	13.5	212
02811618	18	0.634	16.1	319
02811625	25	0.744	18.9	421

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 14 AWG (≈ 46/30) • 2.50 mm²				
02811403	3	0.382	9.7	106
02811404	4	0.409	10.4	127
02811405	5	0.453	11.5	161
02811407	7	0.528	13.4	219
02811409	9	0.614	15.6	265
02811412	12	0.650	16.5	333
02811418	18	0.752	19.1	473
02811425	25	0.949	24.1	667
▶ 12 AWG (≈ 52/28) • 4.00 mm²				
02811203	3	0.445	11.3	156
02811204	4	0.480	12.2	189
02811205	5	0.524	13.3	228
▶ 10 AWG (≈ 78/28) • 6.00 mm²				
02811003	3	0.516	13.1	217
02811004	4	0.559	14.2	265
02811005	5	0.618	15.7	335
▶ 8 AWG (≈ 77/26) • 10.00 mm²				
02810804	4	0.748	19.0	465

Other dimensions and colors are possible on request.



Drain Wire available upon request!

also available
with black
or orange jacket

FLEXIBLE CONTROL CABLES



CC 640 P Halogen-free oil resistant control cable with colored conductors

27 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE



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Marking for CC 640 P 52681604: SAB BRÖCKSKES · D-VIERSEN ·

52680415 4 G 1.5 mm² CC 640 P 16 AWG/4c 52681604 AWM Style 21127 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

CC 640 P is a flexible multi-conductor, 600 V, 80°C UL recognized and CSA approved SABIX[®] insulated flexible power supply and control cable with a rugged, abrasion resistant polyurethane jacket. The polyurethane jacket allows this cable to be used both indoor and outdoor in wet, dry, and extremely cold conditions. The cable is flame retardant and is colored safety yellow. It has been safety tested with UL. Recommended applications include power supply for portable hand tools and appliances.

Construction:

Conductor:	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	SABIX [®]
Color code:	US 1, see page O/27
Stranding:	in layers with a non-woven tape over the outer layer
Jacket material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Jacket color:	yellow

Outstanding features:

- oil resistant
- abrasion resistant
- notch resistant
- good chemical resistance

Technical data:

Nominal voltage:	DIN VDE Uo/U 300/500 V	UL/CSA 600 V	
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2		
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:	5 x 10 ⁷ cJ/kg		
Temperature range	DIN VDE	UL	CSA
<i>static:</i>	-40/+90°C	up to +75°C	up to +80°C
<i>flexing:</i>	-30/+90°C	up to +75°C	up to +80°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1		
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2		
Oil resistance:	very good - PUR TMPU acc. to DIN VDE 0282 part 10 + HD 22.10		
Flexibility:	very good		
Weather resistance:	very good		
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30		

item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
52681802	2	0.276	7.0	41
52681803	3	0.291	7.4	48
52681804	4	0.311	7.9	58
52681805	5	0.335	8.5	68
52681807	7	0.362	9.2	85
52681812	12	0.457	11.6	134
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
52681602	2	0.299	7.6	50
52681603	3	0.315	8.0	60
52681604	4	0.339	8.6	73
52681605	5	0.366	9.3	87
52681607	7	0.398	10.1	111
52681612	12	0.504	12.8	175

item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft
▶ 14 AWG (≈ 46/30) • 2.50 mm²				
52681402	2	0.331	8.4	68
52681403	3	0.350	8.9	83
52681404	4	0.378	9.6	102
52681405	5	0.409	10.4	122
52681407	7	0.445	11.3	158
▶ 12 AWG (≈ 52/28) • 4.00 mm²				
52681203	3	0.425	10.8	128
52681204	4	0.461	11.7	157
52681205	5	0.504	12.8	191
▶ 10 AWG (≈ 78/28) • 6.00 mm²				
52681003	3	0.484	12.3	172
52681004	4	0.528	13.4	216
52681005	5	0.579	14.7	271

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com



Web site: www.sabcable.com

FLEXIBLE CONTROL CABLES

also available
with black
or orange jacket

CC 640 CP Halogen-free oil resistant shielded control cable with colored conductors



Marking for CC 640 CP 52841604: SAB BRÖCKSKES · D-VIERSEN ·

52840415 4 G 1.50 mm² CC 640 CP 16 AWG/4c 52841604 AWM Style 21127 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

CC 640 CP is a shielded flexible multi-conductor, 600 V, 80°C UL recognized and CSA approved SABIX® insulated flexible power supply and control cable with a rugged, abrasion resistant polyurethane jacket. The polyurethane jacket allows this cable to be used both indoor and outdoor, in wet, dry, and extremely cold conditions. The cable is flame retardant and is colored safety yellow. It has been safety tested with UL. Recommended applications include power supply for portable hand tools and appliances. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

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Construction:

Conductor:	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	SABIX®
Color code:	US 1, see page O/27
Stranding:	in layers with a non-woven tape over the outer layer
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Jacket color:	yellow

Outstanding features:

- oil resistant
- abrasion resistant
- notch resistant
- good chemical resistance
- good EMC characteristics

Technical data:

Nominal voltage:	DIN VDE Uo/U 300/500 V	UL/CSA 600 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 1000 V	
Min. bending radius		
<i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
Radiation resistance:	5 x 10 ⁷ cJ/kg	
Temperature range	DIN VDE	UL
<i>static:</i>	-40/+90°C	up to +75°C
<i>flexing:</i>	-30/+90°C	up to +75°C
CSA	up to +80°C	
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
Oil resistance:	very good - PUR TMPU acc. to DIN VDE 0282 part 10 + HD 22.10	
Flexibility:	very good	
Weather resistance:	very good	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

item no.	no. of conductors incl. ground	nominal outer-Ø inch	mm	cable weight ≈ lbs/mft
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
52841802	2	0.315	8.0	56
52841803	3	0.327	8.3	64
52841804	4	0.346	8.8	74
52841805	5	0.374	9.5	86
52841807	7	0.398	10.1	105
52841812	12	0.504	12.8	167
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
52841602	2	0.339	8.6	67
52841603	3	0.354	9.0	78
52841604	4	0.378	9.6	91
52841605	5	0.406	10.3	106
52841607	7	0.437	11.1	132
52841612	12	0.551	14.0	212

item no.	no. of conductors incl. ground	nominal outer-Ø inch	mm	cable weight ≈ lbs/mft
▶ 14 AWG (≈ 46/30) • 2.50 mm²				
52841402	2	0.390	9.9	93
52841403	3	0.409	10.4	110
52841404	4	0.437	11.1	130
52841405	5	0.480	12.2	164
52841407	7	0.520	13.2	203
▶ 12 AWG (≈ 52/28) • 4.00 mm²				
52841203	3	0.465	11.8	157
52841204	4	0.504	12.8	190
52841205	5	0.547	13.9	226
▶ 10 AWG (≈ 78/28) • 6.00 mm²				
52841003	3	0.531	13.5	215
52841004	4	0.575	14.6	261
52841005	5	0.646	16.4	331

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com



Web site: www.sabcable.com

FLEXIBLE CONTROL CABLES



CC 550 P PUR-control cable with numbered cores, halogen-free and oil resistant

BRÖCKSKES · D-VIERSEN · CC 550 P 5 x 1,5 mm² CE



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Marking for CC 550 P 52790515:

SAB BRÖCKSKES · D-VIERSEN · CC 550 P 5 x 1,5 mm² CE

CC 550 P is a multi-conductor, 300/500 V, 90°C oil and chemical resistant, halogen-free control cable. Due to the PUR outer sheath the cable is recommended for machine and industrial plant construction, material handling techniques, car manufacturing industry, handling and automation technologies, iron, steel and chemical industries.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	SABIX®
Color code:	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
Stranding:	in layers
Jacket material:	PUR
Jacket color:	black (RAL 9005)

Outstanding features:

- halogen-free
- very good mechanical strength
- abrasion resistant
- notch resistant
- good chemical resistance
- oil resistant
- flame retardant
- sunlight resistant
- weather resistant

Technical data:

Nominal voltage:	U ₀ /U 300/500 V
Testing voltage U:	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2
Min. bending radius	
<i>fixed installation:</i>	4 x d
<i>free movement:</i>	6 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	
<i>static:</i>	-40/+90°C
<i>flexing:</i>	-30/+90°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Flexibility:	very good
Weather resistance:	good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors incl. ground	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
52790210	2	0.244	6.2	35
52790310	3	0.256	6.5	42
52790510	5	0.303	7.7	62
52790710	7	0.327	8.3	79
52791210	12	0.437	11.1	132
52791810	18	0.508	12.9	176
52792410	24	0.606	15.4	248
52793610	36	0.689	17.5	353
52795010	50	0.819	20.8	485
52797210	72	0.996	25.3	702
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
52790215	2	0.268	6.8	44
52790315	3	0.283	7.2	54
52790515	5	0.335	8.5	81
52790715	7	0.362	9.2	101
52791215	12	0.488	12.4	173
52791815	18	0.567	14.4	248
52792415	24	0.677	17.2	333

item no.	no. of conductors incl. ground	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft
▶ 14 AWG (≈ 46/30) • 2.50 mm²				
52790325	3	0.335	8.5	81
52790425	4	0.362	9.2	101
▶ 12 AWG (≈ 52/28) • 4.00 mm²				
52790540	5	0.476	12.1	185
▶ 10 AWG (≈ 78/28) • 6.00 mm²				
52790460	4	0.500	12.7	215

Other dimensions and colors are possible on request.



Application:
e.g. for the flexible laying in building and utility vehicles

FLEXIBLE CONTROL CABLES

CC 550 CP PUR-control cable with numbered cores, halogen-free, oil resistant and overall copper screen



CE



Marking for CC 550 CP 52950515:
SAB BRÖCKSKES · D-VIERSEN · CC 550 CP 5 x 1,5 mm² CE

CC 550 CP is a shielded multi-conductor, 300/500 V, 90°C oil and chemical resistant, halogen-free control cable. Due to the PUR outer sheath the cable is recommended for machine and industrial plant construction, material handling techniques, car manufacturing industry, handling and automation technologies, iron, steel and chemical industries.

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Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	SABIX®
Color code:	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
Stranding:	in layers
Wrapping:	PETP foil
Screen:	tinned copper braiding
Jacket material:	PUR
Jacket color:	black (RAL 9005)

Outstanding features:

- halogen-free
- very good mechanical strength
- abrasion resistant
- notch resistant
- good chemical resistance
- good EMC characteristics
- oil resistant
- flame retardant
- sunlight resistant
- weather resistant

Technical data:

Nominal voltage:	U ₀ /U 300/500 V
Testing voltage U:	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 1000 V
Min. bending radius	
<i>fixed installation:</i>	5 x d
<i>free movement:</i>	10 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	
<i>static:</i>	-40/+90°C
<i>flexing:</i>	-30/+90°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Flexibility:	very good
Weather resistance:	good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors incl. ground	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm²				
52950705	7	0.303	7.7	62
52951805	18	0.461	11.7	146
52953605	36	0.618	15.7	269
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
52951210	12	0.469	11.9	157
52954210	42	0.795	20.2	486

item no.	no. of conductors incl. ground	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
52950315	3	0.307	7.8	65
52950515	5	0.358	9.1	95
52951815	18	0.614	15.6	305
▶ 14 AWG (≈ 46/30) • 2.50 mm²				
52950725	7	0.480	12.2	62

Other dimensions and colors are possible on request.



Application:
e.g. for the flexible laying in building and utility vehicles

FLEXIBLE CONTROL CABLES



CRX 600 Oil & chemical resistant 105°C flexible control cable



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Marking for CRX 600 32041603:

SAB BRÖCKSKES · D-VIERSEN · CRX 600 AWM Style 21237 105°C 600V AWM I/II A/B 105°C Oil 60°C 1000V FT1 FT2 CE

CRX 600 is a multi-conductor, 600 V, 105°C, UL recognized, chemical resistant and oil resistant flexible control cable. The reduced outer diameter permits easy handling and installation in confined areas. Recommended applications for use in industrial painting machinery, water treatment facilities, chemical processing, harsh environments and areas utilizing various cleaning solvents. Control and Power supply cable with Extra Chemical Resistance to solvents, such as MEK, Acetone, Xylene, Turpentine.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	TPE
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	in layers
Jacket material:	TPE
Jacket color:	gray

Outstanding features:

- general purpose flexing applications requiring UL and cUL recognition
- extra chemical resistant
- oil resistant

Technical data:

Voltage:	UL: 600 V	cUL: 1000 V
Nominal voltage:	DIN VDE: Uo/U 300/500 V	
Testing voltage U:	conductor/conductor 2000 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.	
Temperature range	DIN VDE:	UL-AWM + cUL-AWM: up to +105°C
<i>static:</i>	-30/+90°C	
<i>flexing:</i>	-20/+90°C	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2, UL VW-1, cUL FT1 FT2	
Oil resistance:	Oil 60°C	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm²				
32042002	2	0.209	5.3	24
32042003	3	0.220	5.6	28
32042004	4	0.236	6.0	34
32042007	7	0.280	7.1	51
32042012	12	0.370	9.4	83
32042015	15	0.417	10.6	106
32042025	25	0.547	13.9	144
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
32041802	2	0.236	6.0	33
32041803	3	0.248	6.3	40
32041804	4	0.268	6.8	48
32041805	5	0.299	7.6	60
32041807	7	0.323	8.2	75
32041809	9	0.413	10.5	108
32041812	12	0.437	11.1	126
32041815	15	0.492	12.5	159
32041818	18	0.524	13.3	187
32041825	25	0.638	16.2	256
32041850	50	0.850	21.6	485

item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
32041602	2	0.260	6.6	45
32041603	3	0.272	6.9	54
32041604	4	0.303	7.7	68
32041605	5	0.331	8.4	78
32041607	7	0.366	9.3	102
32041612	12	0.492	12.5	170
32041615	15	0.555	14.1	213
32041618	18	0.591	15.0	222
32041625	25	0.717	18.2	251
32041650	50	0.965	24.5	347
▶ 14 AWG (≈ 46/30) • 2.50 mm²				
32041403	3	0.327	8.3	77
32041404	4	0.335	8.5	97
32041405	5	0.398	10.1	120
32041407	7	0.441	11.2	157
32041412	12	0.602	15.3	266
32041418	18	0.717	18.2	391
32041425	25	0.878	22.3	540

item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft
▶ 12 AWG (≈ 52/28) • 4.00 mm²				
32041203	3	0.382	9.7	115
32041204	4	0.425	10.8	146
32041205	5	0.476	12.1	181
32041207	7	0.528	13.4	226
▶ 10 AWG (≈ 78/28) • 6.00 mm²				
32041003	3	0.449	11.4	166
32041004	4	0.500	12.7	211
32041005	5	0.559	14.2	261
▶ 8 AWG (≈ 77/26) • 10.00 mm²				
32040804	4	0.760	19.3	406
▶ 6 AWG (≈ 122/26) • 16.00 mm²				
32040604	4	0.835	21.2	576
▶ 4 AWG (≈ 190/26) • 25.00 mm²				
32040404	4	1.043	26.5	930
▶ 2 AWG (≈ 272/26) • 35.00 mm²				
32040204	4	1.209	30.7	1271
▶ 1 AWG (≈ 400/26) • 50.00 mm²				
32040104	4	1.378	35.0	1736

Other dimensions and colors are possible on request.

FLEXIBLE CONTROL CABLES

CRX 600 C Oil & chemical resistant 105°C flexible shielded control cable



600V cUL AWM I/II A/B 105°C Oil 60°C 1000V FT1 FT2

Marking for CRX 600 C 32141603:

SAB BRÖCKSKES · D-VIERSEN · CRX 600 C AWM Style 21237 105°C 600V cUL AWM I/II A/B 105°C Oil 60°C 1000V FT1 FT2 CE

CRX 600 C is a multi-conductor, 600 V, 105°C, UL recognized, chemical resistant and oil resistant flexible shielded control cable. The reduced outer diameter permits easy handling and installation in confined areas. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. Recommended applications for use in industrial painting machinery, water treatment facilities, chemical processing, harsh environments and areas utilizing various cleaning solvents. Shielded Control and Power supply cable with Extra Chemical Resistance to solvents, such as MEK, Acetone, Xylene, Turpentine.

Construction:	
Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	TPE
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	in layers
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Jacket material:	TPE
Jacket color:	gray

Outstanding features:	
▶	general purpose flexing applications requiring UL and cUL recognition
▶	extra chemical resistant
▶	oil resistant

Technical data:	
Voltage:	UL: 600 V cUL: 1000 V
Nominal voltage:	DIN VDE: U _o /U 300/500 V
Testing voltage U:	conductor/conductor 2000 V conductor/screen 1000 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.
Temperature range	DIN VDE: UL + cUL: up to +105°C
<i>static:</i>	-30/+80°C
<i>flexing:</i>	-20/+80°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2, UL VW-1, cUL FT1 FT2
Oil resistance:	Oil 60°C
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm ²				
32142002	2	0.232	5.9	28
32142003	3	0.244	6.2	34
32142004	4	0.260	6.6	40
32142007	7	0.307	7.8	60
32142012	12	0.394	10.0	95
32142015	15	0.453	11.5	128
32142025	25	0.579	14.7	205
▶ 18 AWG (≈ 30/32) • 1.00 mm ²				
32141802	2	0.260	6.6	36
32141803	3	0.276	7.0	46
32141804	4	0.295	7.5	56
32141805	5	0.323	8.2	68
32141807	7	0.354	9.0	87
32141809	9	0.445	11.3	126
32141812	12	0.476	12.1	151
32141815	15	0.531	13.5	186
32141818	18	0.563	14.3	223
32141825	25	0.677	17.2	303
32141850	50	0.898	22.8	550

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 16 AWG (≈ 27-29/30) • 1.50 mm ²				
32141602	2	0.283	7.2	45
32141603	3	0.299	7.6	58
32141604	4	0.327	8.3	71
32141605	5	0.362	9.2	88
32141607	7	0.390	9.9	111
32141612	12	0.531	13.5	196
32141615	15	0.602	15.3	257
32141618	18	0.638	16.2	295
32141625	25	0.764	19.4	404
32141650	50	1.012	25.7	745
▶ 14 AWG (≈ 46/30) • 2.50 mm ²				
32141403	3	0.358	9.1	87
32141404	4	0.386	9.8	105
32141405	5	0.437	11.1	138
32141407	7	0.480	12.2	179
32141412	12	0.650	16.5	308
32141418	18	0.764	19.4	444
32141425	25	0.925	23.5	601

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 12 AWG (≈ 52/28) • 4.00 mm ²				
32141203	3	0.421	10.7	128
32141204	4	0.465	11.8	164
32141205	5	0.508	12.9	198
32141207	7	0.567	14.4	268
▶ 10 AWG (≈ 78/28) • 6.00 mm ²				
32141003	3	0.488	12.4	178
32141004	4	0.539	13.7	226
32141005	5	0.606	15.4	294
▶ 8 AWG (≈ 77/26) • 10.00 mm ²				
32140804	4	0.807	20.5	450
▶ 6 AWG (≈ 122/26) • 16.00 mm ²				
32140604	4	0.882	22.4	609
▶ 4 AWG (≈ 190/26) • 25.00 mm ²				
32140404	4	1.083	27.5	944
▶ 2 AWG (≈ 272/26) • 35.00 mm ²				
32140204	4	1.236	31.4	1278
▶ 1 AWG (≈ 400/26) • 50.00 mm ²				
32140104	4	1.413	35.9	1754

Other dimensions and colors are possible on request.