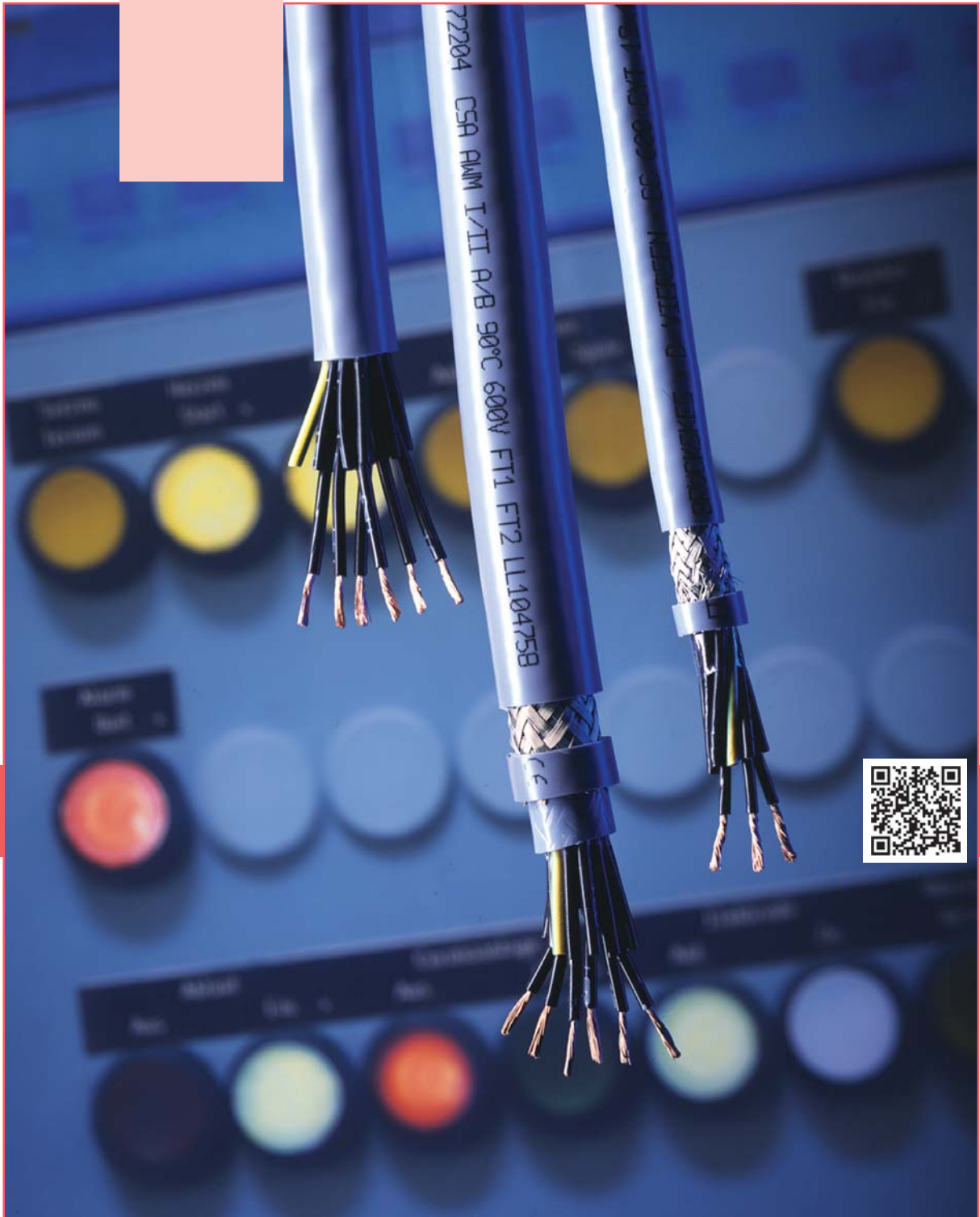


# Control and Connection **Cables**



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You will find more halogen-free control and connection cables in chapter A



## 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 copper screen can be used. These cables are not to be used for outdoor installation.

#### Exemplary applications:

H05V-K/MTW/TEW H07V-K/MTW/TEW MEGA 147 H05V2-K H05V-K MEGA 157 H07V2-K H07V-K	Construction of control cabinets, appliances and devices for communication technologies, household appliances, generator, transformer and machine construction
CC 500 CC 510 CC 600 black, blue CC 600 MTW	Construction of service cabinets and control devices, electrical technology, installation and packaging techniques, 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 cleansing appliances
ÖCYZ-J	Car manufacturing industry, automation technologies, press and form engineering, machine tools, textile, printing and paper machine construction, surface techniques
CC 500 CY CC 500 CY (TR) CC 510 CY CC 600 CY Lean 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 CC 500 SY (TR)	Packaging and wood working machine construction, press engineering, energy techniques, plastics processing and textile machine construction, electrical technology, beverage racks
ÖZ-0 (E) ÖZCuY-0 (E)	Chemical industry, for intrinsically safe circuits, on control panels in hazardous locations. Marking meets the requirements acc. to DIN VDE 0165 section 6.1.3.3.1
CC 600 World CC 600 M CY CC 600 T CC 600 DS T CC 600 CY T H05VV5-F (HD 21.13 S1) H05VVC4V5-K (HD 21.13 S1)	Machine tool and packaging machine construction, material handling and automation technologies, car manufacturing industry, CNC-machines

## Applications

### ■ Applications of PUR control cables

PUR 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 load for fixed installation or flexible application with free movement, without tensile load and mechanically guided movement in dry, damp and wet rooms. These cables are used wherever abrasion resistance, notch toughness, oil and chemical resistance are strongly requested.

#### Exemplary applications:

CC 500 P	Due to the PUR outer sheath very well suitable 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
CC 500 CP	
CC 540 P	
CC 540 CP	
CC 550 P	
CC 550 CP	
CC 600 P black, blue, red	
CC 600 CP	
CC 640 P	
CC 640 CP	

### ■ Applications of PUR connection cables

These cables are suitable for the use with high mechanical loads in dry, damp and wet rooms, e.g. as connection cable for electrical appliances and electric tools, particularly at low temperatures.

#### Exemplary applications:

YK11Y-J	Electric appliance construction (e.g. hand screw driver, drilling machines), electric tool construction (e.g. grass mowing machines, edge cutters, hedge clippers), in brick and cement works, for partial outdoor use
NYMH11YÖ-J	Electric hand appliances (e.g. drilling machines, portable grinders and other electric tools) with high mechanical loads, steel, car manufacturing, mining and chemical industry, wherever the cables get in contact with oil or sharp edges, rough floors or metal scoops, application in dry rooms

### ■ 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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■ You will find further information about the safe application of cables on pages N/28-38

## Selection table

		Cable type																				
		CC 500	CC 500 B	ÖCYZ-J	CC 500 CY	CC 500 CY (TR)	CC 510	CC 510 CY	CC 500 SY	CC 500 SY (TR)	ÖZ-0 (E)	ÖZCuY-0 (E)	YK11Y-J	CC 500 P	CC 500 CP	CC 540 P	CC 540 CP	CC 550 P	CC 550 CP	H05V-K/MTW/TEW H07V-K/MTW/TEW	MEGA 147/H05V2-K/ H05V-K/MEGA 157/ H07V2-K/H07V-K	
Basic construction	Numbered cores	x		x	x	x	x	x	x	x	x	x		x	x			x	x			
	Coloured cores		x										x			x	x				x	x
	Copper screen			x	x	x		x		x		x			x		x			x		
	Steel wire protection								x	x										x		
	With inner sheath				x	x		x	x	x		x		from 4.0 mm <sup>2</sup>								
	Transparent outer sheath					x					x											
Temperature range fixed laying*	+ 105 °C																					
	+ 90 °C																					
	+ 80 °C																					
	+ 70 °C																					
	+ 60 °C																					
	- 25 °C																					
	- 30 °C																					
	- 40 °C																					
Voltage	Voltage UL-AWM 600 V / CSA 1000 V																					
	Voltage UL 600 V cUL 1000 V																					
	Nominal voltage 600 V (UL/CSA)																					
	Nominal voltage Uo/U 300/500 V	x	x <sup>1</sup>	x	x	x			x	x	x	x	x	x	x	x <sup>3</sup>	x <sup>3</sup>	x	x	x	x	x
	Nominal voltage Uo/U 450/750 V		x <sup>2</sup>													x <sup>4</sup>	x <sup>4</sup>				x	x
	Nominal voltage Uo/U 0,6/1 kV						x	x														
	Testing voltage core/core 2000 V																		x	x	x	x
	Testing voltage core/core 2500 V																				x	x
	Testing voltage core/core 3000 V	x	x	x	x	x			x	x	x	x	x	x	x	x	x	x				
	Testing voltage core/core 4000 V						x	x														
Testing voltage core/screen 1000 V			x	x	x						x				x		x					
Testing voltage core/screen 2000 V																			x			
Standards and approvals	Fire performance 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
	Fire performance acc. to UL VW-1 and acc. to CSA FT1 and FT2																					
	Fire performance acc. to UL VW-1 and acc. to CSA FT1																				x	x
	Fire performance acc. to UL VW-1 and acc. to cUL FT1 and FT2																					
	Fire performance acc. to CSA FT1 and FT2																					
	VDE-Reg. no.	x			x	x			x	x	x	x										
	DIN VDE standardized																				x	x
	<HAR> standardized																				x	x
	UL recognition																				x	x
cUL recognition (UL) listed																					x	
CSA approved																						
Characteristics	Oil resistance acc. to internal standard	x	x	x	x	x	x	x	x	x	x	x										
	Oil resistance acc. to DIN VDE												x	x	x	x	x	x	x			
	Oil 60 °C																				x	x
	Good chemical resistance see page N/9						x	x					x	x	x	x	x	x	x			
	High mechanical loading capacity								x	x				x	x	x	x	x	x	x		
	Intrinsically safe											x	x									
	Weather resistance													x			x	x	x	x		
	Partial outdoor use													x								



x<sup>1</sup> from 0,50 mm<sup>2</sup> to 1,50 mm<sup>2</sup>  
x<sup>2</sup> from 2,50 mm<sup>2</sup> to 50,0 mm<sup>2</sup>

x<sup>3</sup> from 0,75 mm<sup>2</sup> to 1,00 mm<sup>2</sup>  
x<sup>4</sup> from 1,00 mm<sup>2</sup> to 16,0 mm<sup>2</sup>

\*\*The temperature range for flexible application is mentioned on the corresponding catalogue page

## Selection table

		Cable type	H05VV5-F	H05VVC4V5-K	CC 600 black, blue	CC 600 CY Lean	CC 600 CY	CC 600 T	CC 600 CY T	CC 600 DS T	CC 600 MTW	CC 600 MTW CY	CC 600 World	CC 600 M CY	CC 600 P black, blue, red	CC 600 CP	CC 640 P	CC 640 CP	NYM11YÖ-J	CRX 600	CRX 600 C	
Basic construction	Numbered cores		x	x	x	x	x	x	x	x	x	x	x	x	x					x	x	
	Coloured cores																x	x	x			
	Copper screen			x		x			x	x		x		x		x		x			x	
	Steel wire protection																					
	With inner sheath			x											x	from 4.0 mm <sup>2</sup>						
	Transparent outer sheath																					
Temperature range fixed laying*	+ 105 °C																					
	+ 90 °C																					
	+ 80 °C																					
	+ 70 °C																					
	+ 60 °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 600 V (UL/CSA)				x	x	x	x	x	x			x	x	x	x	x	x				
	Nominal voltage U <sub>0</sub> /U 300/500 V	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	
	Nominal voltage U <sub>0</sub> /U 450/750 V																					
	Nominal voltage U <sub>0</sub> /U 0,6/1 kV																					
	Testing voltage core/core 2000 V																				x	x
	Testing voltage core/core 2500 V																					
	Testing voltage core/core 3000 V	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		
	Testing voltage core/core 4000 V										x	x										
	Testing voltage core/screen 1000 V					x			x	x				x			x		x			x
Testing voltage core/screen 2000 V			x			x					x											
Standards and approvals	Fire performance 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	
	Fire performance acc. to UL VW-1 and acc. to CSA FT1 and FT2	x		x	x	x	x	x	x				x	x	x	x	x	x				
	Fire performance acc. to UL VW-1 and acc. to CSA FT1																					
	Fire performance acc. to UL VW-1 and acc. to cUL FT1 and FT2																			x	x	
	Fire performance acc. to CSA FT1 and FT2										x	x										
	VDE-Reg. no.			x	x	x																
	DIN VDE standardized																			x		
	<HAR> standardized	x	x																			
	UL recognition			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x
	cUL recognition																				x	x
	(UL) listed										x	x										
CSA approved			x	x	x				x			x	x									
Characteristics	Oil resistance acc. to internal standard							x	x	x												
	Oil resistance acc. to DIN VDE	x	x	x	x	x					x	x	x	x			x	x	x			
	Oil 60 °C								x	x			x	x								
	Good chemical resistance see page N/9			x		x							x	x		x	x	x		x	x	
	High mechanical loading capacity				x			x	x						x	x	x	x				
	Intrinsically safe																					
	Weather resistance																x	x				
Partial outdoor use																						



x<sup>1</sup> from 0,50 mm<sup>2</sup> to 1,50 mm<sup>2</sup>  
x<sup>2</sup> from 2,50 mm<sup>2</sup> to 50,0 mm<sup>2</sup>

x<sup>3</sup> from 0,75 mm<sup>2</sup> to 1,00 mm<sup>2</sup>  
x<sup>4</sup> from 1,00 mm<sup>2</sup> to 16,0 mm<sup>2</sup>

\*\*The temperature range for flexible application is mentioned on the corresponding catalogue page

## CC 500 PVC control cable with numbered cores

VIERSEN · ÖZ-J VDE-Reg.-Nr. 7000 CC 500 50 x 0,5 mm<sup>2</sup> CE



Marking for CC 500 (ÖZ-J) 02005005:

SAB BRÖCKSKES · D-VIERSEN · ÖZ-J VDE-Reg.-Nr. 7000 CC 500 50 x 0,5 mm<sup>2</sup> CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- flexible
- numbered cores
- small bending radius

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	+5/+70 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page N/13
<b>Chem. resistance:</b>	see page N/9
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

Also available as hybrid cable without reg. no. for example:

3G1,0 + 16 x 0,34 mm<sup>2</sup>

3G1,0 + 8 x 0,34 mm<sup>2</sup>

1G0,5 + 4 x 0,34 mm<sup>2</sup>

Peak operating voltage of data conductors: max. 500 V

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02000205	2 x 0,50	0,21	5,1	9,6	37
02000305	3 x 0,50	0,21	5,4	14,4	43
02000405	4 x 0,50	0,21	5,8	19,2	52
02000505	5 x 0,50	0,21	6,5	24,0	64
02000705	7 x 0,50	0,21	7,1	33,6	80
02000805	8 x 0,50	0,21	8,3	38,4	99
02000905	9 x 0,50	0,21	8,8	43,2	110
02001005	10 x 0,50	0,21	9,2	48,0	117
02001205	12 x 0,50	0,21	9,5	57,6	132
02001405	14 x 0,50	0,21	9,9	67,2	148
02001605	16 x 0,50	0,21	10,6	76,8	171
02001805	18 x 0,50	0,21	11,2	86,4	189
02002105	21 x 0,50	0,21	12,4	100,8	225
02002505	25 x 0,50	0,21	13,6	120,0	260
02003005	30 x 0,50	0,21	14,0	144,0	298
02003405	34 x 0,50	0,21	15,3	163,2	341
02004005	40 x 0,50	0,21	16,5	192,0	399
02004205	42 x 0,50	0,21	16,5	201,6	414
02005005	50 x 0,50	0,21	18,1	240,0	485
02006105	61 x 0,50	0,21	19,4	292,8	529
02006505	65 x 0,50	0,21	20,4	312,0	619
02008005	80 x 0,50	0,21	22,2	384,0	752
02000207	2 x 0,75	0,21	5,7	14,4	47
02000307	3 x 0,75	0,21	6,2	21,6	59
02000407	4 x 0,75	0,21	6,7	28,8	71
02000507	5 x 0,75	0,21	7,3	36,0	84
02000707	7 x 0,75	0,21	8,2	50,4	110
02000807	8 x 0,75	0,21	9,6	57,6	136
02000907	9 x 0,75	0,21	10,2	64,8	152
02001007	10 x 0,75	0,21	10,6	72,0	159
02001207	12 x 0,75	0,21	10,9	86,4	181
02001407	14 x 0,75	0,21	11,4	100,8	203
02001607	16 x 0,75	0,21	12,2	115,2	234

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02001807	18 x 0,75	0,21	12,9	129,6	258
02002107	21 x 0,75	0,21	14,3	151,2	305
02002507	25 x 0,75	0,21	15,6	180,0	354
02003007	30 x 0,75	0,21	16,3	216,0	417
02003407	34 x 0,75	0,21	17,8	244,8	473
02004007	40 x 0,75	0,21	19,0	288,0	546
02004207	42 x 0,75	0,21	19,0	302,4	565
02005007	50 x 0,75	0,21	21,0	360,0	672
02006107	61 x 0,75	0,21	22,5	439,2	803
02006507	65 x 0,75	0,21	23,9	468,0	869
02008007	80 x 0,75	0,21	25,7	576,0	1040
02000210	2 x 1,00	0,21	5,9	19,2	53
02000310	3 x 1,00	0,21	6,4	28,8	67
02000410	4 x 1,00	0,21	7,0	38,4	82
02000510	5 x 1,00	0,21	7,8	48,0	101
02000710	7 x 1,00	0,21	8,5	67,2	128
02000810	8 x 1,00	0,21	9,9	76,8	157
02000910	9 x 1,00	0,21	10,8	86,4	181
02001010	10 x 1,00	0,21	11,0	96,0	189
02001210	12 x 1,00	0,21	11,3	115,2	211
02001410	14 x 1,00	0,21	12,1	134,4	244
02001610	16 x 1,00	0,21	12,7	153,6	273
02001810	18 x 1,00	0,21	13,6	172,8	309
02002110	21 x 1,00	0,21	15,0	201,6	363
02002510	25 x 1,00	0,21	16,4	240,0	422
02003010	30 x 1,00	0,21	17,0	288,0	488
02003410	34 x 1,00	0,21	18,5	326,4	556
02004010	40 x 1,00	0,21	19,9	384,0	651
02004210	42 x 1,00	0,21	19,9	403,2	677
02005010	50 x 1,00	0,21	21,9	480,0	792
02006110	61 x 1,00	0,21	23,6	585,6	959
02006510	65 x 1,00	0,21	24,8	624,0	1024
02008010	80 x 1,00	0,21	27,0	768,0	1243

Continued on next page



## CC 500 PVC control cable with numbered cores

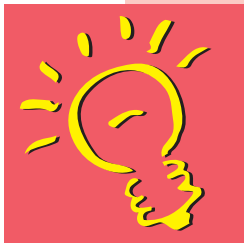


Marking for CC 500 02005005:

SAB BRÖCKSKES · D-VIERSEN · ÖZ-J VDE-Reg.-Nr. 7000 CC 500 50 x 0,5 mm<sup>2</sup> CE

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02000215	2 x 1,50	0,26	6,7	28,8	71	02001025	10 x 2,50	0,26	15,2	240,0	384
02000315	3 x 1,50	0,26	7,1	43,2	87	02001225	12 x 2,50	0,26	15,7	288,0	441
02000415	4 x 1,50	0,26	7,9	57,6	109	02001425	14 x 2,50	0,26	16,6	336,0	508
02000515	5 x 1,50	0,26	8,6	72,0	130	02001625	16 x 2,50	0,26	17,5	384,0	572
02000715	7 x 1,50	0,26	9,6	100,8	172	02001825	18 x 2,50	0,26	18,7	432,0	641
02000815	8 x 1,50	0,26	11,2	115,2	210	02002125	21 x 2,50	0,26	20,9	504,0	766
02000915	9 x 1,50	0,26	12,2	129,6	234	02002525	25 x 2,50	0,26	22,8	600,0	888
02001015	10 x 1,50	0,26	12,4	144,0	246	02003040	3 x 4,00	0,31	10,2	115,2	196
02001215	12 x 1,50	0,26	12,8	172,8	282	02000440	4 x 4,00	0,31	11,3	153,6	247
02001415	14 x 1,50	0,26	13,6	201,6	325	02000540	5 x 4,00	0,31	12,6	192,0	305
02001615	16 x 1,50	0,26	14,3	230,4	365	02000740	7 x 4,00	0,31	13,9	268,8	400
02001815	18 x 1,50	0,26	15,3	259,2	413	02000360	3 x 6,00	0,31	12,1	172,8	286
02002115	21 x 1,50	0,26	16,9	302,4	486	02000460	4 x 6,00	0,31	13,2	230,4	353
02002515	25 x 1,50	0,26	18,5	360,0	570	02000560	5 x 6,00	0,31	14,9	288,0	443
02003015	30 x 1,50	0,26	19,3	432,0	669	02000760	7 x 6,00	0,31	16,4	403,2	580
02003415	34 x 1,50	0,26	21,0	489,6	760	02000461	4 x 10,0	0,41	17,1	384,0	600
02004015	40 x 1,50	0,26	22,6	576,0	891	02000561	5 x 10,0	0,41	19,3	480,0	750
02004215	42 x 1,50	0,26	22,6	604,8	926	02000761	7 x 10,0	0,41	21,2	672,0	981
02005015	50 x 1,50	0,26	24,8	720,0	1089	02000462	4 x 16,0	0,41	21,1	614,4	918
02006115	61 x 1,50	0,26	26,7	878,4	1315	02000562	5 x 16,0	0,41	23,6	768,0	1138
02006515	65 x 1,50	0,26	28,3	936,0	1419	02000762	7 x 16,0	0,41	26,0	1075,2	1494
02008015	80 x 1,50	0,26	30,5	1152,0	1709	02000463	4 x 25,0	0,41	25,5	960,0	1438
02000225	2 x 2,50	0,26	8,1	48,0	107	02000563	5 x 25,0	0,41	28,6	1200,0	1803
02000325	3 x 2,50	0,26	8,6	72,0	133	02000763	7 x 25,0	0,41	31,6	1680,0	2362
02000425	4 x 2,50	0,26	9,5	96,0	166	02000464	4 x 35,0	0,41	29,5	1344,0	1985
02000525	5 x 2,50	0,26	10,6	120,0	205	02000564	5 x 35,0	0,41	32,9	1680,0	2483
02000725	7 x 2,50	0,26	11,6	168,0	264	02000764	7 x 35,0	0,41	36,4	2352,0	3259
02000825	8 x 2,50	0,26	13,8	192,0	327	02000465	4 x 50,0	0,41	33,9	1920,0	2714
02000925	9 x 2,50	0,26	14,9	216,0	368						

Other dimensions and colours are possible on request.



even more than  
100 cores  
are possible

## CC 500 B PVC connection cable with coloured cores

SAB BRÖCKSKES · D-VIERSEN · Ö-J CC 500 B 5 x 1,0 mm<sup>2</sup> CE



Marking for CC 500 B (Ö-J) 02050510:

SAB BRÖCKSKES · D-VIERSEN · Ö-J CC 500 B 5 x 1,0 mm<sup>2</sup> CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	coloured acc. to HD 308 (VDE 0293 part 308); green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	PVC, TM2 a cc. to DIN VDE 0281 part 1+ HD 21.1
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- flexible
- coloured cores
- small bending radius

### Technical data:

<b>Nominal voltage:</b>	0,50 mm <sup>2</sup> - 1,50 mm <sup>2</sup> : U <sub>0</sub> /U 300/500 V 2,50 mm <sup>2</sup> - 50,0 mm <sup>2</sup> : U <sub>0</sub> /U 450/750 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	+5/+70 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page N/13
<b>Chem. resistance:</b>	see page N/9
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02050205	2 x 0,50	0,21	4,8	9,6	33
02050305	3 x 0,50	0,21	5,1	14,4	40
02050405	4 x 0,50	0,21	5,5	19,2	47
02050505	5 x 0,50	0,21	6,2	24,0	61
02050705	7 x 0,50	0,21	6,7	33,6	74
02050207	2 x 0,75	0,21	5,6	14,4	46
02050307	3 x 0,75	0,21	5,7	21,6	52
02050407	4 x 0,75	0,21	6,2	28,8	64
02050507	5 x 0,75	0,21	6,7	36,0	78
02050707	7 x 0,75	0,21	7,5	50,4	100
02050210	2 x 1,00	0,21	5,5	19,2	48
02050310	3 x 1,00	0,21	6,1	28,8	63
02050410	4 x 1,00	0,21	6,5	38,4	75
02050510	5 x 1,00	0,21	7,1	48,0	92
02050710	7 x 1,00	0,21	8,0	67,2	120
02050215	2 x 1,50	0,26	6,2	28,8	64
02050315	3 x 1,50	0,26	6,5	43,2	79
02050415	4 x 1,50	0,26	7,6	57,6	103
02050515	5 x 1,50	0,26	8,0	72,0	121
02050715	7 x 1,50	0,26	8,9	100,8	160

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02050225	2 x 2,50	0,26	8,8	48,0	121
02050325	3 x 2,50	0,26	9,5	72,0	151
02050425	4 x 2,50	0,26	10,6	96,0	190
02050525	5 x 2,50	0,26	11,6	120,0	232
02050725	7 x 2,50	0,26	12,8	168,0	297
02050340	3 x 4,00	0,31	10,8	115,2	213
02050440	4 x 4,00	0,31	12,0	153,6	267
02050540	5 x 4,00	0,31	13,1	192,0	327
02050360	3 x 6,00	0,31	12,7	172,8	303
02050460	4 x 6,00	0,31	14,1	230,4	381
02050560	5 x 6,00	0,31	15,7	288,0	466
02050760	7 x 6,00	0,31	17,3	403,2	613
02050361	3 x 10,0	0,41	15,8	288,0	492
02050461	4 x 10,0	0,41	17,8	384,0	627
02050561	5 x 10,0	0,41	19,7	480,0	783
02050462	4 x 16,0	0,41	21,1	614,4	935
02050463	4 x 25,0	0,41	25,5	960,0	1456
02050464	4 x 35,0	0,41	28,8	1344,0	1978
02050465	4 x 50,0	0,41	34,6	1920,0	2769

Other dimensions and colours are possible on request.

## ÖCYZ-J PVC control cable with numbered cores and overall copper screen



BRÖCKSKES · D-VIERSEN · ÖCYZ-J CC 238 34 x 2,50

Marking for ÖCYZ-J 02383425:  
SAB BRÖCKSKES · D-VIERSEN · ÖCYZ-J CC 238 34 x 2,50 mm<sup>2</sup> CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- good EMC characteristics
- flexible
- small outer diameter
- small bending radius

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2; core/screen 1000 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
fixed laying:	-40/+70 °C
flexible application:	+5/+70 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page N/13
<b>Chem. resistance:</b>	see page N/9
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02380305	3 x 0,50	0,21	5,6	30,7	47
02380405	4 x 0,50	0,21	6,2	48,0	59
02380505	5 x 0,50	0,21	6,7	55,9	71
02380705	7 x 0,50	0,21	7,2	71,1	84
02381005	10 x 0,50	0,21	9,3	98,1	124
02381205	12 x 0,50	0,21	9,6	108,1	140
02381805	18 x 0,50	0,21	11,4	143,3	214
02382505	25 x 0,50	0,21	13,8	189,7	284
02384005	40 x 0,50	0,21	16,8	299,4	452
02386105	61 x 0,50	0,21	19,6	428,7	636
02380207	2 x 0,75	0,21	6,1	31,1	46
02380307	3 x 0,75	0,21	6,4	50,6	62
02380407	4 x 0,75	0,21	6,9	61,1	73
02380507	5 x 0,75	0,21	7,7	73,7	87
02380707	7 x 0,75	0,21	8,3	89,0	112
02381007	10 x 0,75	0,21	10,9	127,4	157
02381207	12 x 0,75	0,21	11,2	142,4	195
02381807	18 x 0,75	0,21	13,3	197,9	275
02382507	25 x 0,75	0,21	16,2	284,6	371
02383207	32 x 0,75	0,21	17,3	358,2	477
02384007	40 x 0,75	0,21	19,5	422,5	589
02386107	61 x 0,75	0,21	22,7	609,7	835
02380310	3 x 1,00	0,21	6,6	58,2	69
02380410	4 x 1,00	0,21	7,1	75,7	86
02380510	5 x 1,00	0,21	8,0	86,1	103
02380710	7 x 1,00	0,21	8,6	108,2	130
02381010	10 x 1,00	0,21	11,2	152,2	201
02381210	12 x 1,00	0,21	11,8	172,1	237
02381810	18 x 1,00	0,21	13,8	242,1	331
02382510	25 x 1,00	0,21	16,8	346,5	465
02383210	32 x 1,00	0,21	18,2	437,3	574
02384010	40 x 1,00	0,21	20,2	521,3	710
02386110	61 x 1,00	0,21	23,8	760,0	1010

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02380215	2 x 1,50	0,26	6,9	60,7	72
02380315	3 x 1,50	0,26	7,5	80,5	91
02380415	4 x 1,50	0,26	8,1	95,6	111
02380515	5 x 1,50	0,26	9,0	113,2	132
02380715	7 x 1,50	0,26	9,7	151,2	175
02381015	10 x 1,50	0,26	12,6	202,8	261
02381215	12 x 1,50	0,26	13,3	240,8	309
02381815	18 x 1,50	0,26	15,7	362,3	432
02382515	25 x 1,50	0,26	19,1	492,1	611
02383215	32 x 1,50	0,26	20,6	597,7	756
02384215	42 x 1,50	0,26	22,9	775,3	980
02386115	61 x 1,50	0,26	26,9	1064,7	1348
02380325	3 x 2,50	0,26	9,0	113,0	135
02380425	4 x 2,50	0,26	9,7	146,2	167
02380525	5 x 2,50	0,26	11,0	175,0	217
02380725	7 x 2,50	0,26	12,1	225,1	284
02381025	10 x 2,50	0,26	15,7	342,7	434
02381225	12 x 2,50	0,26	16,4	392,0	490
02381825	18 x 2,50	0,26	19,3	564,1	712
02382525	25 x 2,50	0,26	23,4	770,1	959
02383425	34 x 2,50	0,26	26,3	997,8	1299
02380440	4 x 4,00	0,31	11,5	210,7	252
02380540	5 x 4,00	0,31	12,8	260,0	313
02380460	4 x 6,00	0,31	13,6	298,4	359
02380560	5 x 6,00	0,31	15,3	358,7	444
02380461	4 x 10,0	0,41	17,8	517,1	615
02380561	5 x 10,0	0,41	19,3	620,5	776
02380462	4 x 16,0	0,41	21,5	756,0	917
02380562	5 x 16,0	0,41	24,0	944,0	1135
02380463	4 x 25,0	0,41	26,0	1145,7	1419
02380563	5 x 25,0	0,41	28,9	1399,2	1779

Other dimensions and colours are possible on request.

## CC 500 CY (item 0240....) PVC control cable with numbered cores, CC 500 CY (TR) (item 0244....) inner sheath and overall copper screen



Marking for CC 500 CY (TR) 02440410:

SAB BRÖCKSKES · D-VIERSEN · ÖZCuY-J (TR) VDE-Reg.-Nr. 7000 CC 500 CY (TR) 4 x 1,0 mm² CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 HD + 21.1
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Inner sheath:</b>	PVC, TM2 acc. to DIN VDE 0281 part 1 HD + 21.1
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	PVC, TM2 acc. to DIN VDE 0281 part 1 HD + 21.1
<b>Sheath colour:</b>	<b>CC 500 CY:</b> grey (RAL 7000) <b>CC 500 CY (TR):</b> transparent

### Outstanding features:

- good EMC characteristics
- flexible
- high mechanical loading capacity

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2; core/screen 1000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	+5/+70 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page N/13
<b>Chem. resistance:</b>	see page N/9
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

item no. 0240.../ 0244....	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
....0205	2 x 0,50	0,21	7,3	55,3	72
....0305	3 x 0,50	0,21	7,8	60,6	84
....0405	4 x 0,50	0,21	8,1	66,4	92
....0505	5 x 0,50	0,21	8,7	81,3	107
....0705	7 x 0,50	0,21	9,5	92,0	130
....1205	12 x 0,50	0,21	12,1	133,4	210
....1805	18 x 0,50	0,21	14,0	180,8	283
....2505	25 x 0,50	0,21	16,6	244,4	388
....3405	34 x 0,50	0,21	18,3	272,9	485
....4205	42 x 0,50	0,21	19,7	336,3	578
....5005	50 x 0,50	0,21	21,3	366,1	655
....6105	61 x 0,50	0,21	22,6	430,3	764
....0207	2 x 0,75	0,21	8,1	61,2	99
....0307	3 x 0,75	0,21	8,4	69,0	112
....0407	4 x 0,75	0,21	9,1	86,5	126
....0507	5 x 0,75	0,21	9,7	94,8	150
....0707	7 x 0,75	0,21	10,6	110,7	179
....1207	12 x 0,75	0,21	13,7	180,0	265
....1807	18 x 0,75	0,21	15,9	227,4	361
....2507	25 x 0,75	0,21	18,8	311,4	511
....3407	34 x 0,75	0,21	21,0	384,2	648
....4207	42 x 0,75	0,21	22,2	446,5	762
....5007	50 x 0,75	0,21	24,2	536,5	874
....6107	61 x 0,75	0,21	25,7	623,2	1023
....0210	2 x 1,00	0,21	8,3	66,4	109
....0310	3 x 1,00	0,21	8,6	76,5	121
....0410	4 x 1,00	0,21	9,4	96,4	144

item no. 0240.../ 0244....	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
....0510	5 x 1,00	0,21	10,0	107,4	165
....0710	7 x 1,00	0,21	11,1	128,1	203
....1210	12 x 1,00	0,21	14,3	209,6	303
....1810	18 x 1,00	0,21	16,5	271,8	423
....2510	25 x 1,00	0,21	19,6	373,4	584
....3410	34 x 1,00	0,21	21,7	468,3	754
....4210	42 x 1,00	0,21	23,1	550,3	888
....5010	50 x 1,00	0,21	25,2	661,7	1019
....6110	61 x 1,00	0,21	27,0	775,4	1187
....0215	2 x 1,50	0,26	9,1	86,1	124
....0315	3 x 1,50	0,26	9,5	101,2	146
....0415	4 x 1,50	0,26	10,1	116,8	168
....0515	5 x 1,50	0,26	11,2	145,4	209
....0715	7 x 1,50	0,26	12,2	176,3	249
....1215	12 x 1,50	0,26	15,8	270,2	395
....1815	18 x 1,50	0,26	18,5	389,0	559
....2515	25 x 1,50	0,26	21,7	501,6	764
....3415	34 x 1,50	0,26	24,2	666,5	967
....4215	42 x 1,50	0,26	25,8	788,8	1156
....5015	50 x 1,50	0,26	28,4	914,9	1360
....6115	61 x 1,50	0,26	30,1	1080,8	1588
....0325	3 x 2,50	0,26	11,2	132,9	208
....0425	4 x 2,50	0,26	12,1	171,2	244
....0525	5 x 2,50	0,26	13,2	212,5	293
....0725	7 x 2,50	0,26	14,6	262,7	370
....1225	12 x 2,50	0,26	18,9	418,8	607
....1825	18 x 2,50	0,26	21,9	573,6	846

Other dimensions and colours are possible on request.

## CC 510 PVC control cable with numbered cores 0,6/1 kV



BRÖCKSKES · D-VIERSEN · CC 510 0,6/1 kV 4 x 1,5 mm<sup>2</sup> CE

Marking for CC 510 32010415:  
SAB BRÖCKSKES · D-VIERSEN · CC 510 0,6/1 kV 4 x 1,5 mm<sup>2</sup> CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Sheath colour:</b>	black (RAL 9005)

### Outstanding features:

- flexible
- numbered cores
- small bending radius
- sunlight resistant

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 0,6/1 kV
<b>Testing voltage U:</b>	4000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	+5/+70 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page N/13
<b>Chem. resistance:</b>	see page N/9
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
32010210	2 x 1,00	0,21	7,4	19,2	78
32010310	3 x 1,00	0,21	7,8	28,8	92
32010410	4 x 1,00	0,21	8,4	38,4	109
32010510	5 x 1,00	0,21	9,2	48,0	130
32010710	7 x 1,00	0,21	9,9	67,2	161
32010810	8 x 1,00	0,21	11,8	76,8	202
32010910	9 x 1,00	0,21	12,6	86,4	224
32011010	10 x 1,00	0,21	12,8	96,0	232
32011210	12 x 1,00	0,21	13,2	115,2	263
32011410	14 x 1,00	0,21	13,8	134,4	296
32011610	16 x 1,00	0,21	14,6	153,6	332
32011810	18 x 1,00	0,21	15,7	172,8	382
32012110	21 x 1,00	0,21	17,2	201,6	439
32010215	2 x 1,50	0,26	8,4	28,8	103
32010315	3 x 1,50	0,26	8,9	43,2	122
32010415	4 x 1,50	0,26	9,6	57,6	146
32010515	5 x 1,50	0,26	10,5	72,0	172
32010715	7 x 1,50	0,26	11,8	100,8	230
32010815	8 x 1,50	0,26	13,6	115,2	271
32010915	9 x 1,50	0,26	14,5	129,6	299
32011015	10 x 1,50	0,26	14,8	144,0	313
32011215	12 x 1,50	0,26	15,7	172,8	373
32011415	14 x 1,50	0,26	16,4	201,6	420
32011615	16 x 1,50	0,26	17,3	230,4	471
32011815	18 x 1,50	0,26	18,2	259,2	521

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
32012115	21 x 1,50	0,26	20,4	302,4	620
32010225	2 x 2,50	0,26	9,6	48,0	140
32010325	3 x 2,50	0,26	10,1	72,0	169
32010425	4 x 2,50	0,26	11,4	96,0	215
32010525	5 x 2,50	0,26	12,5	120,0	258
32010725	7 x 2,50	0,26	13,6	168,0	326
32010825	8 x 2,50	0,26	16,2	192,0	403
32010925	9 x 2,50	0,26	17,2	216,0	507
32011025	10 x 2,50	0,26	17,6	240,0	464
32011225	12 x 2,50	0,26	18,1	288,0	532
32010340	3 x 4,00	0,31	12,2	115,2	252
32010440	4 x 4,00	0,31	12,9	153,6	294
32010540	5 x 4,00	0,31	14,1	192,0	349
32010740	7 x 4,00	0,31	15,8	268,8	468
32010360	3 x 6,00	0,31	12,9	172,8	311
32010460	4 x 6,00	0,31	14,1	230,4	383
32010560	5 x 6,00	0,31	15,9	288,0	478
32010760	7 x 6,00	0,31	19,1	403,2	660
32010461	4 x 10,0	0,41	18,7	384,0	596
32010561	5 x 10,0	0,41	20,6	480,0	732
32010462	4 x 16,0	0,41	22,5	614,4	876
32010562	5 x 16,0	0,41	25,2	768,0	1100
32010463	4 x 25,0	0,41	29,2	960,0	1448
32010563	5 x 25,0	0,41	32,1	1200,0	1964
32010464	4 x 35,0	0,41	32,6	1344,0	2104

Other dimensions and colours are possible on request.

## CC 510 CY PVC control cable with numbered cores, inner sheath and overall copper screen 0,6/1 kV



Marking for CC 510 CY 32020415:

SAB BRÖCKSKES · D-VIERSEN · CC 510 CY 0,6/1 kV 4 x 1,5 mm<sup>2</sup> CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Inner sheath:</b>	PVC, TM2 acc. to DIN VDE 0281 part 1 HD + 21.1
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	PVC, TM2 acc. to DIN VDE 0281 part 1 HD + 21.1
<b>Sheath colour:</b>	black (RAL 9005)

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 0,6/1 kV
<b>Testing voltage U:</b>	4000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	+5/+70 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page N/13
<b>Chem. resistance:</b>	see page N/9
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

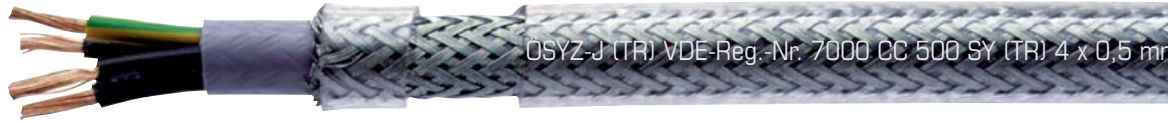
### Outstanding features:

- flexible
- good EMC characteristics
- numbered cores
- small bending radius
- sunlight resistant

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
32020210	2 x 1,00	0,21	9,4	45,4	130
32020310	3 x 1,00	0,21	9,8	55,1	145
32020410	4 x 1,00	0,21	10,4	67,6	167
32020510	5 x 1,00	0,21	11,6	95,9	211
32020710	7 x 1,00	0,21	12,7	121,6	260
32021210	12 x 1,00	0,21	16,2	212,9	412
32021910	19 x 1,00	0,21	18,9	293,9	574
32020315	3 x 1,50	0,26	11,3	90,9	200
32020415	4 x 1,50	0,26	12,2	111,7	238
32020515	5 x 1,50	0,26	13,3	131,6	282
32020715	7 x 1,50	0,26	14,6	186,4	355
32020815	8 x 1,50	0,26	16,8	213,8	427
32021215	12 x 1,50	0,26	18,9	284,3	554
32021915	19 x 1,50	0,26	21,8	411,7	772
32020325	3 x 2,50	0,26	12,9	126,6	269
32020825	8 x 2,50	0,26	19,6	315,4	596

Other dimensions and colours are possible on request.

## CC 500 SY (item 0220....) PVC control cable with numbered cores, CC 500 SY (TR) (item 0218....) inner sheath and steel wire armouring



ÖSYZ-J (TR) VDE-Reg.-Nr. 7000 CC 500 SY (TR) 4 x 0,5 mm²

Marking for CC 500 SY (TR) 02180405:

SAB BRÖCKSKES · D-VIERSEN · ÖSYZ-J (TR) VDE-Reg.-Nr. 7000 CC 500 SY (TR) 4 x 0,5 mm² CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Inner sheath:</b>	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Screen:</b>	galvanized steel wire braiding
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Sheath colour:</b>	<b>CC 500 SY:</b> grey (RAL 7000) <b>CC 500 SY (TR):</b> transparent

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	+5/+70 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page N/13
<b>Chem. resistance:</b>	see page N/9
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

### Outstanding features:

- flexible
- high mechanical loading capacity

item no. 0220.../ 0218....	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
....0205	2 x 0,50	0,21	7,7	9,6	75
....0305	3 x 0,50	0,21	8,0	14,4	83
....0405	4 x 0,50	0,21	8,4	19,2	95
....0505	5 x 0,50	0,21	9,1	24,0	111
....0705	7 x 0,50	0,21	9,7	33,6	129
....1005	10 x 0,50	0,21	11,6	48,0	172
....1205	12 x 0,50	0,21	12,1	57,6	193
....1405	14 x 0,50	0,21	12,7	67,2	219
....1805	18 x 0,50	0,21	14,2	86,4	279
....2105	21 x 0,50	0,21	15,4	100,8	322
....2505	25 x 0,50	0,21	16,6	120,0	362
....3005	30 x 0,50	0,21	17,0	144,0	402
....3405	34 x 0,50	0,21	18,3	163,2	453
....4005	40 x 0,50	0,21	19,7	192,0	532
....5005	50 x 0,50	0,21	21,3	240,0	619
....6105	61 x 0,50	0,21	22,6	292,8	724
....8005	80 x 0,50	0,21	25,6	384,0	925

item no. 0220.../ 0218....	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
....0207	2 x 0,75	0,21	8,3	14,4	90
....0307	3 x 0,75	0,21	8,6	21,6	101
....0407	4 x 0,75	0,21	9,3	28,8	117
....0507	5 x 0,75	0,21	9,9	36,0	134
....0707	7 x 0,75	0,21	10,4	50,4	158
....0907	9 x 0,75	0,21	13,1	64,8	235
....1007	10 x 0,75	0,21	13,2	72,0	227
....1207	12 x 0,75	0,21	13,9	86,4	271
....1407	14 x 0,75	0,21	14,4	100,8	292
....1807	18 x 0,75	0,21	15,8	129,6	356
....2107	21 x 0,75	0,21	17,3	151,2	418
....2507	25 x 0,75	0,21	18,8	180,0	478
....3007	30 x 0,75	0,21	19,5	216,0	541
....3407	34 x 0,75	0,21	20,9	244,8	608
....4007	40 x 0,75	0,21	22,4	288,0	706
....5007	50 x 0,75	0,21	24,2	360,0	824
....6107	61 x 0,75	0,21	25,9	439,2	978
....8007	80 x 0,75	0,21	29,1	576,0	1235

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# CONTROL AND CONNECTION CABLES

## CC 500 SY

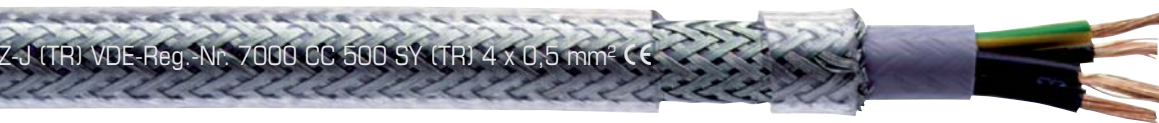
(item 0220....)

PVC control cable with numbered cores,

## CC 500 SY (TR)

(item 0218....)

inner sheath and steel wire armouring



Z-J (TR) VDE-Reg.-Nr. 7000 CC 500 SY (TR) 4 x 0,5 mm<sup>2</sup> CE

Marking for CC 500 SY (TR) 02180405:

SAB BRÖCKSKES · D-VIERSEN · ÖSYZ-J (TR) VDE-Reg.-Nr. 7000 CC 500 SY (TR) 4 x 0,5 mm<sup>2</sup> CE

item no. 0220..../ 0218....	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
....0210	2 x 1,00	0,21	8,5	19,2	97
....0310	3 x 1,00	0,21	8,8	28,8	109
....0410	4 x 1,00	0,21	9,6	38,4	130
....0510	5 x 1,00	0,21	10,3	48,0	155
....0710	7 x 1,00	0,21	11,1	67,2	186
....0810	8 x 1,00	0,21	12,8	76,8	237
....0910	9 x 1,00	0,21	13,7	86,4	275
....1010	10 x 1,00	0,21	14,0	96,0	272
....1210	12 x 1,00	0,21	14,3	115,2	299
....1410	14 x 1,00	0,21	15,1	134,4	335
....1810	18 x 1,00	0,21	16,5	172,8	414
....2010	20 x 1,00	0,21	17,2	192,0	450
....2510	25 x 1,00	0,21	19,6	240,0	549
....3010	30 x 1,00	0,21	20,2	288,0	618
....3410	34 x 1,00	0,21	21,5	326,4	698
....4110	41 x 1,00	0,21	23,2	393,6	821
....5010	50 x 1,00	0,21	25,5	480,0	975
....6110	61 x 1,00	0,21	27,0	585,6	1138
....8010	80 x 1,00	0,21	30,4	768,0	1443
....0215	2 x 1,50	0,26	9,3	28,8	118
....0315	3 x 1,50	0,26	9,7	43,2	135
....0415	4 x 1,50	0,26	10,3	57,6	156
....0515	5 x 1,50	0,26	11,2	72,0	188
....0615	6 x 1,50	0,26	12,2	86,4	226
....0715	7 x 1,50	0,26	12,2	100,8	237
....0815	8 x 1,50	0,26	14,3	115,2	309
....0915	9 x 1,50	0,26	15,0	129,6	341
....1015	10 x 1,50	0,26	15,4	144,0	339
....1215	12 x 1,50	0,26	15,8	172,8	377
....1415	14 x 1,50	0,26	16,6	201,6	428
....1815	18 x 1,50	0,26	18,3	259,2	527
....2115	21 x 1,50	0,26	20,2	302,4	627
....2515	25 x 1,50	0,26	21,7	360,0	712
....3015	30 x 1,50	0,26	22,5	432,0	814
....3415	34 x 1,50	0,26	24,2	489,6	917
....4215	42 x 1,50	0,26	26,1	604,8	1113

item no. 0220..../ 0218....	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
....5015	50 x 1,50	0,26	28,4	720,0	1219
....6115	61 x 1,50	0,26	30,1	878,4	1514
....8015	80 x 1,50	0,26	34,5	1152,0	1984
....0225	2 x 2,50	0,26	10,7	48,0	163
....0325	3 x 2,50	0,26	11,2	72,0	190
....0425	4 x 2,50	0,26	12,1	96,0	227
....0525	5 x 2,50	0,26	13,2	120,0	273
....0625	6 x 2,50	0,26	14,5	144,0	336
....0725	7 x 2,50	0,26	14,6	168,0	354
....1225	12 x 2,50	0,26	18,9	288,0	566
....1425	14 x 2,50	0,26	19,8	336,0	636
....1825	18 x 2,50	0,26	21,8	432,0	792
....2125	21 x 2,50	0,26	24,2	504,0	935
....2525	25 x 2,50	0,26	26,2	600,0	1064
....3025	30 x 2,50	0,26	27,1	720,0	1221
....3425	34 x 2,50	0,26	29,1	816,0	1384
....4025	40 x 2,50	0,26	31,9	960,0	1665
....5025	50 x 2,50	0,26	34,6	1200,0	1974
....6125	61 x 2,50	0,26	36,9	1464,0	2335
....0340	3 x 4,00	0,31	13,0	115,2	268
....0440	4 x 4,00	0,31	14,3	153,6	336
....0540	5 x 4,00	0,31	15,5	192,0	402
....0740	7 x 4,00	0,31	16,9	268,8	504
....0460	4 x 6,00	0,31	16,4	230,4	461
....0560	5 x 6,00	0,31	17,8	288,0	554
....0760	7 x 6,00	0,31	19,6	403,2	707
....0461	4 x 10,0	0,41	20,3	384,0	730
....0561	5 x 10,0	0,41	22,4	480,0	900
....0761	7 x 10,0	0,41	24,4	672,0	1133
....0462	4 x 16,0	0,41	24,3	614,4	1070
....0562	5 x 16,0	0,41	27,0	768,0	1332
....0762	7 x 16,0	0,41	29,6	1075,2	1702
....0463	4 x 25,0	0,41	28,9	960,0	1632
....0563	5 x 25,0	0,41	32,4	1200,0	2062
....0464	4 x 35,0	0,41	33,3	1344,0	2241
....0564	5 x 35,0	0,41	36,8	1680,0	2766

Other dimensions and colours are possible on request.



## ÖZ-0 (E) PVC control cable with numbered cores and blue outer sheath



Marking for ÖZ-0 (E) 02030307:

SAB BRÖCKSKES · D-VIERSEN · ÖZ-0 (E) VDE-Reg.-Nr. 7000 CC 203 3 x 0,75 mm² CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Sheath colour:</b>	blue (RAL 5015)

### Outstanding features:

- flexible
- for intrinsically safe circuits

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	+5/+70 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page N/13
<b>Chem. resistance:</b>	see page N/9
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02030207	2 x 0,75	0,21	5,7	14,4	47
02030307	3 x 0,75	0,21	6,1	21,6	58
02030407	4 x 0,75	0,21	6,7	28,8	71
02030507	5 x 0,75	0,21	7,3	36,0	86
02030707	7 x 0,75	0,21	8,1	50,4	108
02030210	2 x 1,00	0,21	6,0	19,2	55
02030310	3 x 1,00	0,21	6,4	28,8	67
02030410	4 x 1,00	0,21	7,0	38,4	82

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02030510	5 x 1,00	0,21	7,7	48,0	101
02030710	7 x 1,00	0,21	8,6	67,2	130
02030215	2 x 1,50	0,26	6,6	28,8	69
02030315	3 x 1,50	0,26	7,0	43,2	84
02030415	4 x 1,50	0,26	7,7	57,6	104
02030515	5 x 1,50	0,26	8,7	72,0	135
02030715	7 x 1,50	0,26	9,6	100,8	172

Other dimensions and colours are possible on request.

## ÖZCuY-0 (E) PVC control cable with numbered cores, overall copper screen and blue outer sheath



Marking for ÖZCuY-0 (E) 02430307:

SAB BRÖCKSKES · D-VIERSEN · ÖZCuY-0 (E) VDE-Reg.-Nr. 7000 CC 243 3 x 0,75 mm² CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334
<b>Stranding:</b>	in layers
<b>Inner sheath:</b>	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Sheath colour:</b>	blue (RAL 5015)

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2; core/screen 1000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	+5/+70 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page N/13
<b>Chem. resistance:</b>	see page N/9
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

### Outstanding features:

- good EMC characteristics
- flexible
- for intrinsically safe circuits

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02430207	2 x 0,75	0,21	8,1	61,2	94
02430307	3 x 0,75	0,21	8,4	69,0	105
02430407	4 x 0,75	0,21	9,1	86,5	125
02430507	5 x 0,75	0,21	9,7	94,8	145
02430707	7 x 0,75	0,21	10,6	110,7	173
02430210	2 x 1,00	0,21	8,3	66,4	102
02430310	3 x 1,00	0,21	8,6	76,5	114
02430410	4 x 1,00	0,21	9,4	96,4	137

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02430510	5 x 1,00	0,21	10,0	107,4	158
02430710	7 x 1,00	0,21	11,1	128,1	206
02430215	2 x 1,50	0,26	9,1	86,1	125
02430315	3 x 1,50	0,26	9,5	101,2	143
02430415	4 x 1,50	0,26	10,1	116,8	166
02430515	5 x 1,50	0,26	11,1	145,4	210
02430715	7 x 1,50	0,26	12,2	176,3	259

Other dimensions and colours are possible on request.

## YK11Y-J PUR connection cable with coloured cores, flexible at low temperatures



Marking for YK11Y-J 02660425:  
SAB BRÖCKSKES · D-VIERSEN · YK11Y-J 4 x 2,5 mm² CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI5 acc. to DIN VDE 0281 part 1, additional stabilized for low temperatures
<b>Colour code:</b>	coloured acc. to HD 308 (VDE 0293 part 308); green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Sheath colour:</b>	orange (RAL 2003)

### Outstanding features:

- oil resistant
- abrasion resistant
- notch resistant
- good chemical resistance
- flexible at low temperatures

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	-20/+70 °C
<b>Oil resistance:</b>	very good - TPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Weather resistance:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02660207	2 x 0,75	0,21	6,5	14,4	48
02660307	3 x 0,75	0,21	6,8	21,6	59
02660407	4 x 0,75	0,21	7,4	28,8	72
02660507	5 x 0,75	0,21	8,3	36,0	89
02660210	2 x 1,00	0,21	6,7	19,2	54
02660310	3 x 1,00	0,21	7,0	28,8	67
02660410	4 x 1,00	0,21	7,8	38,4	85
02660510	5 x 1,00	0,21	8,6	48,0	103
02660215	2 x 1,50	0,26	7,7	28,8	75
02660315	3 x 1,50	0,26	8,3	43,2	95

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02660415	4 x 1,50	0,26	9,2	57,6	119
02660515	5 x 1,50	0,26	10,3	72,0	148
02660225	2 x 2,50	0,26	9,3	48,0	113
02660325	3 x 2,50	0,26	10,2	72,0	146
02660425	4 x 2,50	0,26	10,8	96,0	177
02660525	5 x 2,50	0,26	12,1	120,0	219
02660440	4 x 4,00	0,31	14,5	153,6	310
02660540	5 x 4,00	0,31	15,7	192,0	371
02660460	4 x 6,00	0,31	15,7	230,4	403
02660560	5 x 6,00	0,31	17,1	288,0	484

Other dimensions and colours are possible on request.

## CC 500 P PUR control cable with numbered cores

BRÖCKSKES · D-VIERSEN · CC 500 P 5 x 1,0 mm<sup>2</sup> CE



Marking for CC 500 P 02600510:  
SAB BRÖCKSKES · D-VIERSEN · SAB 260 P CC 500 P 5 x 1,0 mm<sup>2</sup> CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Inner sheath:</b>	from 4,0 mm <sup>2</sup> : PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Sheath material:</b>	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10 with rough surface
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

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

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	+5/+70 °C
<b>Oil resistance:</b>	very good - TPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02600207	2 x 0,75	0,21	5,7	14,4	39
02600307	3 x 0,75	0,21	5,9	21,6	51
02600407	4 x 0,75	0,21	6,4	28,8	62
02600507	5 x 0,75	0,21	7,0	36,0	75
02600707	7 x 0,75	0,21	7,6	50,4	95
02601207	12 x 0,75	0,21	10,4	86,4	158
02601807	18 x 0,75	0,21	12,1	129,6	225
02602007	20 x 0,75	0,21	12,7	144,0	248
02602507	25 x 0,75	0,21	14,8	180,0	312
02600210	2 x 1,00	0,21	5,9	19,2	44
02600310	3 x 1,00	0,21	6,1	28,8	59
02600410	4 x 1,00	0,21	6,6	38,4	72
02600510	5 x 1,00	0,21	7,3	48,0	87
02600710	7 x 1,00	0,21	7,9	67,2	112
02601210	12 x 1,00	0,21	10,8	115,2	185
02601810	18 x 1,00	0,21	12,6	172,8	267
02602010	20 x 1,00	0,21	13,2	192,0	294
02602510	25 x 1,00	0,21	15,4	240,0	369
02600215	2 x 1,50	0,26	6,5	28,8	56
02600315	3 x 1,50	0,26	6,8	43,2	76
02600415	4 x 1,50	0,26	7,4	57,6	94
02600515	5 x 1,50	0,26	8,1	72,0	115

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02600715	7 x 1,50	0,26	8,8	100,8	148
02601215	12 x 1,50	0,26	12,1	172,8	245
02601815	18 x 1,50	0,26	14,5	259,2	367
02602015	20 x 1,50	0,26	15,2	288,0	404
02602515	25 x 1,50	0,26	17,3	360,0	497
02600225	2 x 2,50	0,26	7,7	48,0	83
02600325	3 x 2,50	0,26	8,1	72,0	115
02600425	4 x 2,50	0,26	8,8	96,0	144
02600525	5 x 2,50	0,26	10,1	120,0	184
02600725	7 x 2,50	0,26	11,0	168,0	238
02601225	12 x 2,50	0,26	14,9	288,0	391
02601825	18 x 2,50	0,26	17,9	432,0	582
02602025	20 x 2,50	0,26	18,8	480,0	636
02602525	25 x 2,50	0,26	21,8	600,0	800
02600340	3 x 4,00	0,31	11,7	115,2	227
02600440	4 x 4,00	0,31	12,6	153,6	275
02600540	5 x 4,00	0,31	13,7	192,0	330
02600360	3 x 6,00	0,31	14,0	172,8	333
02600460	4 x 6,00	0,31	15,1	230,4	404
02600560	5 x 6,00	0,31	16,4	288,0	482
02600461	4 x 10,0	0,41	18,9	384,0	656

Other dimensions and colours are possible on request.

## CC 500 CP PUR control cable with numbered cores and overall copper screen



Marking for CC 500 CP 02801210:  
SAB BRÖCKSKES · D-VIERSEN · SAB 260 CP CC 500 CP 12 x 1,0 mm² CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10 with rough surface
<b>Sheath colour:</b>	grey (RAL 7000)

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 Teil 2 + HD 21.2; core/screen 1000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	+5/+70 °C
<b>Oil resistance:</b>	very good - TPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

### Outstanding features:

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

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02800205	2 x 0,50	0,21	5,3	23,6	35
02800305	3 x 0,50	0,21	5,6	30,3	43
02800405	4 x 0,50	0,21	6,0	36,7	53
02800505	5 x 0,50	0,21	6,5	43,5	64
02800705	7 x 0,50	0,21	7,0	53,3	77
02801205	12 x 0,50	0,21	9,0	86,5	122
02801805	18 x 0,50	0,21	11,1	140,2	196
02802505	25 x 0,50	0,21	13,0	179,8	250
02800207	2 x 0,75	0,21	5,9	30,4	44
02800307	3 x 0,75	0,21	6,2	39,2	55
02800407	4 x 0,75	0,21	6,7	48,3	67
02800507	5 x 0,75	0,21	7,3	57,6	83
02800707	7 x 0,75	0,21	7,9	74,1	102
02801207	12 x 0,75	0,21	10,8	134,1	181
02801807	18 x 0,75	0,21	12,5	189,1	257
02802507	25 x 0,75	0,21	15,4	277,5	366
02800210	2 x 1,00	0,21	6,1	36,8	50
02800310	3 x 1,00	0,21	6,4	46,5	62
02800410	4 x 1,00	0,21	6,9	58,0	77
02800510	5 x 1,00	0,21	7,6	71,6	96
02800710	7 x 1,00	0,21	8,2	93,3	120
02801210	12 x 1,00	0,21	11,2	169,1	213
02801810	18 x 1,00	0,21	13,2	232,2	298
02802510	25 x 1,00	0,21	16,2	378,1	424

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02800215	2 x 1,50	0,26	6,7	48,3	62
02800315	3 x 1,50	0,26	7,1	64,7	80
02800415	4 x 1,50	0,26	7,7	81,2	100
02800515	5 x 1,50	0,26	8,4	98,1	121
02800715	7 x 1,50	0,26	9,1	129,8	157
02801215	12 x 1,50	0,26	12,5	232,3	276
02801815	18 x 1,50	0,26	15,1	356,4	427
02802515	25 x 1,50	0,26	18,3	471,5	575
02800225	2 x 2,50	0,26	7,9	71,7	91
02800325	3 x 2,50	0,26	8,4	98,1	118
02800425	4 x 2,50	0,26	9,1	125,0	148
02800525	5 x 2,50	0,26	10,5	167,5	202
02800725	7 x 2,50	0,26	11,5	222,1	259
02801225	12 x 2,50	0,26	15,6	385,7	446
02801825	18 x 2,50	0,26	18,5	554,9	657
02802525	25 x 2,50	0,26	22,4	740,3	877
02800340	3 x 4,00	0,31	10,0	144,4	177
02800440	4 x 4,00	0,31	11,1	207,4	235
02800540	5 x 4,00	0,31	12,2	251,3	292
02800460	4 x 6,00	0,31	12,8	290,1	331
02800560	5 x 6,00	0,31	14,5	354,5	417
02800461	4 x 10,0	0,41	16,8	494,0	577

Other dimensions and colours are possible on request.

## CC 540 P PUR-control cable with coloured cores, halogen-free and oil resistant



Marking for CC 540 P 52690415:

SAB BRÖCKSKES · D-VIERSEN · CC 540 P 450/750V 4 G 1,5 mm² CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	coloured acc. to HD 308 (VDE 0293 part 308); green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 21.1
<b>Sheath colour:</b>	yellow (RAL 1021)

### Outstanding features:

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

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V from 0,75 mm <sup>2</sup> to 1,0 mm <sup>2</sup> U <sub>0</sub> /U 450/750 V from 1,0 mm <sup>2</sup> to 16,0 mm <sup>2</sup>
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0472 part 267-2-2 - no development of corrosive conflagration gases
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Flexibility:</b>	very good
<b>Weather resistance:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

#### 300/500 V

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
52690207	2 x 0,75	0,21	6,2	14,4	48
52690307	3 x 0,75	0,21	6,7	21,6	61
52690407	4 x 0,75	0,21	7,3	28,8	75
52690507	5 x 0,75	0,21	8,2	36,0	95
52690211	2 x 1,00	0,21	6,7	19,2	58
52690311	3 x 1,00	0,21	7,1	28,8	71
52690411	4 x 1,00	0,21	7,7	38,4	87
52690511	5 x 1,00	0,21	8,6	48,0	110

#### 450/750 V

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
52690210	2 x 1,00	0,21	7,5	19,2	69
52690310	3 x 1,00	0,21	7,9	28,8	84
52690410	4 x 1,00	0,21	8,8	38,4	106
52690510	5 x 1,00	0,21	9,9	48,0	135
52690215	2 x 1,50	0,26	8,3	28,8	87
52690315	3 x 1,50	0,26	8,8	43,2	106
52690415	4 x 1,50	0,26	9,8	57,6	134
52690515	5 x 1,50	0,26	10,7	72,0	167
52690225	2 x 2,50	0,26	9,8	48,0	127
52690325	3 x 2,50	0,26	10,4	72,0	158
52690425	4 x 2,50	0,26	11,5	96,0	198
52690525	5 x 2,50	0,26	12,9	120,0	252
52690240	2 x 4,00	0,31	11,4	76,8	182
52690340	3 x 4,00	0,31	12,1	115,2	229
52690440	4 x 4,00	0,31	13,4	153,6	289
52690540	5 x 4,00	0,31	15,0	192,0	365
52690260	2 x 6,00	0,31	12,8	115,2	242
52690360	3 x 6,00	0,31	13,8	172,8	312
52690460	4 x 6,00	0,31	15,2	230,4	393
52690560	5 x 6,00	0,31	17,0	288,0	496
52690261	2 x 10,00	0,41	17,1	192,0	428
52690361	3 x 10,00	0,41	18,3	288,0	546
52690461	4 x 10,00	0,41	20,1	384,0	684
52690561	5 x 10,00	0,41	22,3	480,0	856
52690262	2 x 16,00	0,41	19,8	307,2	608
52690362	3 x 16,00	0,41	21,4	460,8	792
52690462	4 x 16,00	0,41	23,3	614,4	988
52690562	5 x 16,00	0,41	26,1	768,0	1248

Other dimensions and colours are possible on request.



Sheath  
also possible  
in black  
or orange

## CC 540 CP PUR-control cable with coloured cores, halogen-free, oil resistant and overall copper screen



Marking for CC 540 CP 52850415:  
SAB BRÖCKSKES · D-VIERSEN · CC 540 CP 450/750V 4 G 1,5 mm² CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	coloured acc. to HD 308 (VDE 0293 part 308); green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Inner sheath:</b>	SABIX®
<b>Screen:</b>	tinned copper braiding
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 21.1
<b>Sheath colour:</b>	yellow (RAL 1021)

### Outstanding features:

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

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V from 0,75 mm <sup>2</sup> to 1,0 mm <sup>2</sup> U <sub>0</sub> /U 450/750 V from 1,0 mm <sup>2</sup> to 16,0 mm <sup>2</sup>
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 core/screen 1000 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
fixed laying:	-40/+90 °C
flexible application:	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0472 part 267-2-2 - no development of corrosive conflagration gases
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Flexibility:</b>	very good
<b>Weather resistance:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

#### 300/500 V

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
52850207	2 x 0,75	0,21	8,5	31,0	103
52850307	3 x 0,75	0,21	9,0	38,4	115
52850407	4 x 0,75	0,21	9,6	45,9	130
52850507	5 x 0,75	0,21	10,5	56,8	157
52850211	2 x 1,00	0,21	9,0	36,0	116
52850311	3 x 1,00	0,21	9,4	45,8	128
52850411	4 x 1,00	0,21	10,0	59,1	148
52850511	5 x 1,00	0,21	10,9	69,0	175

#### 450/750 V

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
52850210	2 x 1,00	0,21	9,8	36,4	135
52850310	3 x 1,00	0,21	10,4	49,6	154
52850410	4 x 1,00	0,21	11,1	59,5	174
52850510	5 x 1,00	0,21	12,4	73,0	216
52850215	2 x 1,50	0,26	10,6	49,7	164
52850315	3 x 1,50	0,26	11,1	64,3	179
52850415	4 x 1,50	0,26	12,3	82,6	218
52850515	5 x 1,50	0,26	13,6	109,7	273
52850225	2 x 2,50	0,26	12,3	73,0	229
52850325	3 x 2,50	0,26	12,9	97,3	254
52850425	4 x 2,50	0,26	14,2	134,2	310
52850525	5 x 2,50	0,26	15,6	159,2	369
52850240	2 x 4,00	0,31	14,1	114,9	317
52850340	3 x 4,00	0,31	15,0	153,9	360
52850440	4 x 4,00	0,31	16,3	198,3	428
52850540	5 x 4,00	0,31	17,9	237,7	512
52850260	2 x 6,00	0,31	15,5	154,3	396
52850360	3 x 6,00	0,31	16,5	217,7	460
52850460	4 x 6,00	0,31	17,9	276,1	543
52850560	5 x 6,00	0,31	19,9	340,5	668
52850261	2 x 10,00	0,41	19,2	244,0	628
52850361	3 x 10,00	0,41	20,2	340,7	719
52850461	4 x 10,00	0,41	22,2	444,2	870
52850561	5 x 10,00	0,41	24,6	548,8	1066
52850262	2 x 16,00	0,41	22,1	367,3	871
52850362	3 x 16,00	0,41	23,5	521,8	1018
52850462	4 x 16,00	0,41	25,8	684,0	1237
52850562	5 x 16,00	0,41	28,6	846,6	1514

Other dimensions and colours are possible on request.



Sheath  
also possible  
in black  
or orange

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

BRÖCKSKES · D-VIERSEN · CC 550 P 5 x 1,5 mm<sup>2</sup> CE



Marking for CC 550 P 52790515:  
SAB BRÖCKSKES · D-VIERSEN · CC 550 P 5 x 1,5 mm<sup>2</sup> CE

### Construction:

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

### Outstanding features:

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

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage U:</b>	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Flexibility:</b>	very good
<b>Weather resistance:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
52790210	2 x 1,00	0,21	6,2	19,2	52
52790310	3 x 1,00	0,21	6,5	28,8	63
52790510	5 x 1,00	0,21	7,7	48,0	93
52790710	7 x 1,00	0,21	8,3	67,2	118
52791210	12 x 1,00	0,21	11,1	115,2	196
52791810	18 x 1,00	0,21	12,9	172,8	262
52792410	24 x 1,00	0,21	15,4	230,0	369
52793610	36 x 1,00	0,21	17,5	345,6	526
52795010	50 x 1,00	0,21	20,8	480,0	722
52797210	72 x 1,00	0,21	25,3	691,2	1045
52790215	2 x 1,50	0,26	6,8	28,8	66
52790315	3 x 1,50	0,26	7,2	43,2	81
52790515	5 x 1,50	0,26	8,5	72,0	121
52790715	7 x 1,50	0,26	9,2	100,8	150
52791215	12 x 1,50	0,26	12,4	172,8	257
52791815	18 x 1,50	0,26	14,4	259,2	369
52792415	24 x 1,50	0,26	17,2	345,6	495
52790325	3 x 2,50	0,26	8,5	72,0	121
52790325	4 x 2,50	0,26	9,2	96,0	150
52790540	5 x 4,00	0,31	12,1	192,0	275
52790460	4 x 6,00	0,31	12,7	230,4	320

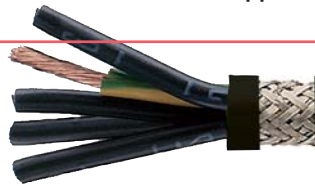
Other dimensions and colours are possible on request.

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





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



BRÖCKSKES · D-VIERSEN · CC 550 CP 5 x 1

Marking for CC 550 CP 52950515:  
SAB BRÖCKSKES · D-VIERSEN · CC 550 CP 5 x 1,5 mm<sup>2</sup> CE

### Construction:

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

### Outstanding features:

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

### Technical data:

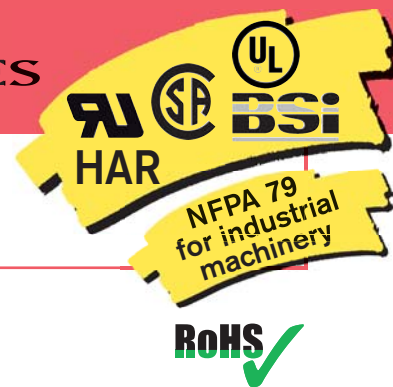
<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage U:</b>	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2 core/screen 2000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Flexibility:</b>	very good
<b>Weather resistance:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
52950705	7 x 0,50	0,21	7,7	53,4	93
52951805	18 x 0,50	0,21	11,7	140,4	217
52953605	36 x 0,50	0,21	15,7	270,3	400
52951210	12 x 1,00	0,21	11,9	169,3	234
52954210	42 x 1,00	0,21	20,2	528,3	723
52950315	3 x 1,50	0,26	7,8	64,5	96
52950515	5 x 1,50	0,26	9,1	98,2	141
52951815	18 x 1,50	0,26	15,6	330,1	454
52950725	7 x 2,50	0,26	12,2	222,3	282

Other dimensions and colours are possible on request.



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



## H05V-K/MTW/TEW PVC insulated wiring cable

## H07V-K/MTW/TEW PVC insulated single conductor

1,0 mm<sup>2</sup> 18 AWG (UL) Type MTW 600V AWM Style 1015/10519 105°C 600V VW1 CSA Type TEW 105°C 600V FT1 CE



Marking for H05V-K/MTW/TEW 31660150:

SAB BRÖCKSKES · D-VIERSEN · < VDE > < HAR > H05V-K 1,0 mm<sup>2</sup> 18 AWG (UL)

Type MTW 600V AWM Style 1015/10519 105°C 600V VW1 CSA Type TEW 105°C 600V FT1 CE

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, T11 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour:</b>	black (RAL 9005)

### Outstanding features:

- **H05V-K: 300/500 V**
- **H07V-K: 450/750 V**
- **flexible conductor**
- **harmonised acc. to European standards**
- **MTW (Machine Tool Wire)**
- **TEW (Thermoplastic Equipment Wire)**
- **NFPA 79 for industrial machinery**
- **H07V-K: BS 6231 type BK**

### Technical data:

<b>Nominal voltage H05V-K:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Nominal voltage H07V-K:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 450/750 V	<b>UL/CSA</b> 600 V
<b>Testing voltage H05V-K:</b>	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
<b>Testing voltage H07V-K:</b>	2500 V acc. to DIN VDE 0281 part 2 + HD 21.2	
<b>Min. bending radius:</b>	4 x d	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL-AWM/CSA</b>
<i>fixed laying:</i>	-40/+70 °C	up to +105°C
<i>flexible application:</i>	+5/+70 °C	up to +105°C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

### H05V-K/MTW/TEW

### UL/CSA/CE

item no.	nominal cross section mm <sup>2</sup>	largest single wire ø mm	outer-ø approx. mm	copper figure kg/km	cable weight ≈ kg/km
31660114*	0,14	0,11	2,0	1,3	6
31660125*	0,25	0,16	2,2	2,4	7
31660134	0,34	0,16	2,3	3,3	9

\*without MTW

Other dimensions and colours are possible on request.

### H07V-K/MTW/TEW

### UL/CSA/CE

item no.	nominal cross section mm <sup>2</sup>	largest single wire ø mm	outer-ø approx. mm	copper figure kg/km	cable weight ≈ kg/km
31670192	50,00	0,41	15,2	480,0	600
31670193	70,00	0,41	16,2	672,0	790
31670194	95,00	0,51	19,3	912,0	1067
31670195	120,00	0,51	20,8	1152,0	1277

Other dimensions and colours are possible on request.

### H05V-K/MTW/TEW

### HAR/UL/CSA/CE

item no.	nominal cross section mm <sup>2</sup>	largest single wire ø mm	outer-ø approx. mm	copper figure kg/km	cable weight ≈ kg/km
31660150	0,50	0,21	2,5	5,1	11
31660175	0,75	0,21	2,7	7,2	14
31660180	1,00	0,21	2,8	9,6	16

Other dimensions and colours are possible on request.

### H07V-K/MTW/TEW

### HAR/UL/CSA/CE

item no.	nominal cross section mm <sup>2</sup>	largest single wire ø mm	outer-ø approx. mm	copper figure kg/km	cable weight ≈ kg/km
31670182	1,50	0,26	3,1	14,4	20
31670184	2,50	0,26	3,7	24,0	32
31670186	4,00	0,31	4,3	38,4	50
31670187	6,00	0,31	4,8	57,6	66
31670188	10,00	0,41	6,8	96,0	121
31670189	16,00	0,41	9,1	153,6	211
31670190	25,00	0,41	10,6	240,0	303
31670191	35,00	0,41	11,8	336,0	407

Other dimensions and colours are possible on request.



## MEGA 147/H05V2-K/H05V-K PVC insulated wiring cable MEGA 157/H07V2-K/H07V-K PVC insulated single conductor



H05V-K 0,5 mm<sup>2</sup> 20 AWG AWM Style 1015 105°C 600V E172204 CSA Type TEW 105°C 600V FT1 LL104758

Marking for H05V2-K 31470150:  
SAB BRÖCKSKES · D-VIERSEN · < VDE > < HAR > H05V2-K H05V-K 0,5 mm<sup>2</sup> 20 AWG  
AWM Style 1015 105°C 600V E172204 CSA Type TEW 105°C 600V FT1 LL104758

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI3 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour:</b>	black (RAL 9005)

### Outstanding features:

- **H05V2-K: 300/500 V**
- **H07V2-K: 450/750 V**
- **flexible conductor**
- **harmonised acc. to European standards**

### Technical data:

<b>Nominal voltage</b> H05V2-K / H05V-K:	<b>DIN VDE</b> U <sub>o</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Nominal voltage</b> H07V2-K / H07V-K:	<b>DIN VDE</b> U <sub>o</sub> /U 450/750 V	<b>UL/CSA</b> 600 V
<b>Testing voltage</b> H05V2-K / H05V-K:	2000 V acc. to DIN VDE 0281 part 2 + HD 21.1	
<b>Testing voltage</b> H07V2-K / H07V-K:	2500 V acc. to DIN VDE 0281 part 2 + HD 21.2	
<b>Min. bending radius</b> fixed laying:	4 x d	
flexible application:	6 x d	
<b>Temperature range</b> fixed laying:	<b>DIN VDE</b> -40/+90 °C	<b>UL/CSA</b> up to +105°C
flexible application:	+5/+90 °C	up to +105°C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

### MEGA 147 UL/CSA/CE

item no.	nominal cross section mm <sup>2</sup>	largest single wire ø mm	outer-ø approx. mm	copper figure kg/km	cable weight ≈ kg/km
31470114	0,14	0,11	2,0	1,3	6
31470125	0,25	0,16	2,2	2,4	7
31470134	0,34	0,16	2,3	3,3	9

Other dimensions and colours are possible on request.

### MEGA 157 UL/CSA/CE

item no.	nominal cross section mm <sup>2</sup>	largest single wire ø mm	outer-ø approx. mm	copper figure kg/km	cable weight ≈ kg/km
31570192	50,00	0,41	15,2	480,0	600
31570193	70,00	0,41	16,2	672,0	790
31570194	95,00	0,51	19,3	912,0	1067
31570195	120,00	0,51	20,8	1152,0	1277

Other dimensions and colours are possible on request.

### MEGA 147/H05V2-K/H05V-K HAR/UL/CSA/CE

item no.	nominal cross section mm <sup>2</sup>	largest single wire ø mm	outer-ø approx. mm	copper figure kg/km	cable weight ≈ kg/km
31470150	0,50	0,21	2,5	5,1	11
31470175	0,75	0,21	2,7	7,2	14
31470180	1,00	0,21	2,8	9,6	16

Other dimensions and colours are possible on request.

### MEGA 157/H07V2-K/H07V-K HAR/UL/CSA/CE

item no.	nominal cross section mm <sup>2</sup>	largest single wire ø mm	outer-ø approx. mm	copper figure kg/km	cable weight ≈ kg/km
31570182	1,50	0,26	3,1	14,4	20
31570184	2,50	0,26	3,7	24,0	32
31570186	4,00	0,31	4,3	38,4	50
31570187	6,00	0,31	4,8	57,6	66
31570188	10,00	0,41	6,8	96,0	121
31570189	16,00	0,41	9,1	153,6	211
31570190	25,00	0,41	10,6	240,0	303
31570191	35,00	0,41	11,8	336,0	407

Other dimensions and colours are possible on request.

## H05VV5 - F PVC control cable with numbered cores

SAB BRÖCKSKES · D-VIERSEN · H05VV5-F 25 G 1,50 mm<sup>2</sup> CE



Marking for H05VV5-F 02500315:

SAB BRÖCKSKES · D-VIERSEN · H05VV5-F 3 G 1,50 mm<sup>2</sup> CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, Tl2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	PVC, TM5 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- flexible
- oil resistant
- DIN VDE resp. HAR standardized

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage U:</b>	3000 V to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	+5/+70 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Chem. resistance:</b>	see page N/9
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02500305	3 x 0,50	0,21	6,2	14,4	54
02500405	4 x 0,50	0,21	6,8	19,2	67
02500505	5 x 0,50	0,21	7,6	24,0	82
02500705	7 x 0,50	0,21	9,1	33,6	116
02501205	12 x 0,50	0,21	11,3	57,6	170
02501805	18 x 0,50	0,21	13,4	86,4	245
02502505	25 x 0,50	0,21	16,7	120,0	340
02503205	32 x 0,50	0,21	17,8	153,6	418
02503405	34 x 0,50	0,21	18,5	163,2	444
02504205	42 x 0,50	0,21	19,9	201,6	540
02505005	50 x 0,50	0,21	21,9	240,0	622
02506005	60 x 0,50	0,21	23,2	288,0	727
02500307	3 x 0,75	0,21	7,1	21,6	72
02500407	4 x 0,75	0,21	7,7	28,8	86
02500507	5 x 0,75	0,21	8,6	36,0	109
02500707	7 x 0,75	0,21	10,3	50,4	153
02501207	12 x 0,75	0,21	12,6	86,4	218
02501807	18 x 0,75	0,21	15,1	129,6	323
02502507	25 x 0,75	0,21	18,5	180,0	442
02503207	32 x 0,75	0,21	20,0	230,4	549
02503407	34 x 0,75	0,21	21,0	244,8	592
02504207	42 x 0,75	0,21	22,6	302,4	722
02505007	50 x 0,75	0,21	24,8	360,0	829
02506007	60 x 0,75	0,21	26,3	432,0	970
02500310	3 x 1,00	0,21	7,4	28,8	81
02500410	4 x 1,00	0,21	7,9	38,4	97
02500510	5 x 1,00	0,21	8,9	48,0	123
02500710	7 x 1,00	0,21	10,6	67,2	173
02501210	12 x 1,00	0,21	13,2	115,2	255
02501810	18 x 1,00	0,21	15,6	172,8	369

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02502510	25 x 1,00	0,21	19,3	240,0	514
02503210	32 x 1,00	0,21	20,9	307,2	640
02503410	34 x 1,00	0,21	21,7	326,4	678
02504210	42 x 1,00	0,21	23,6	403,2	839
02505010	50 x 1,00	0,21	25,8	480,0	965
02506010	60 x 1,00	0,21	27,4	576,0	1132
02500315	3 x 1,50	0,26	8,6	43,2	113
02500415	4 x 1,50	0,26	9,3	57,6	136
02500515	5 x 1,50	0,26	10,4	72,0	167
02500715	7 x 1,50	0,26	12,7	100,8	237
02501215	12 x 1,50	0,26	15,5	172,8	355
02501815	18 x 1,50	0,26	18,5	259,2	523
02502515	25 x 1,50	0,26	22,8	360,0	729
02503215	32 x 1,50	0,26	24,6	460,8	904
02503415	34 x 1,50	0,26	25,8	489,6	973
02504215	42 x 1,50	0,26	28,0	604,8	1201
02505015	50 x 1,50	0,26	30,6	720,0	1384
02506015	60 x 1,50	0,26	32,5	864,0	1605
02500325	3 x 2,50	0,26	10,0	72,0	163
02500425	4 x 2,50	0,26	11,2	96,0	204
02500525	5 x 2,50	0,26	12,3	120,0	250
02500725	7 x 2,50	0,26	14,8	168,0	357
02501225	12 x 2,50	0,26	18,3	288,0	528
02501825	18 x 2,50	0,26	22,1	432,0	786
02502525	25 x 2,50	0,26	27,0	600,0	1078
02503225	32 x 2,50	0,26	29,5	768,0	1357
02503425	34 x 2,50	0,26	30,6	816,0	1439
02504225	42 x 2,50	0,26	32,9	1008,0	1743
02505025	50 x 2,50	0,26	35,7	1200,0	1991
02506025	60 x 2,50	0,26	37,9	1440,0	2347

Other dimensions and colours are possible on request.

## H05VVC4V5-K PVC control cable with numbered cores, inner sheath and overall copper screen



Marking for H05VVC4V5-K 02550315:  
SAB BRÖCKSKES · D-VIERSEN · H05VVC4V5-K 3 G 1,50 mm<sup>2</sup> CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Inner sheath:</b>	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	PVC, TM5 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Sheath colour:</b>	grey (RAL 7000)

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2; core/screen 2000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	+5/+70 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Chem. resistance:</b>	see page N/9
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

### Outstanding features:

- good EMC characteristics
- flexible
- oil resistant
- DIN VDE resp. HAR standardized

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02550305	3 x 0,50	0,21	8,8	47,3	115
02550405	4 x 0,50	0,21	9,4	54,4	130
02550505	5 x 0,50	0,21	10,2	67,2	157
02550705	7 x 0,50	0,21	11,7	78,1	199
02551205	12 x 0,50	0,21	14,1	116,2	280
02551805	18 x 0,50	0,21	16,4	148,2	376
02552505	25 x 0,50	0,21	19,6	220,7	516
02553205	32 x 0,50	0,21	21,0	269,0	617
02553405	34 x 0,50	0,21	21,7	280,6	648
02554205	42 x 0,50	0,21	23,1	322,7	756
02555005	50 x 0,50	0,21	25,5	376,8	882
02556005	60 x 0,50	0,21	26,8	429,2	999
02550307	3 x 0,75	0,21	9,5	57,0	134
02550407	4 x 0,75	0,21	10,5	72,0	163
02550507	5 x 0,75	0,21	11,0	80,0	184
02550707	7 x 0,75	0,21	12,9	99,9	246
02551207	12 x 0,75	0,21	15,6	147,1	344
02551807	18 x 0,75	0,21	18,3	221,6	488
02552507	25 x 0,75	0,21	22,5	299,3	669
02553207	32 x 0,75	0,21	23,2	351,8	765
02553407	34 x 0,75	0,21	24,2	368,8	816
02554207	42 x 0,75	0,21	26,0	440,9	977
02555007	50 x 0,75	0,21	28,4	518,7	1125
02556007	60 x 0,75	0,21	30,1	596,5	1295
02550310	3 x 1,00	0,21	9,9	64,5	149
02550410	4 x 1,00	0,21	10,5	81,8	174
02550510	5 x 1,00	0,21	11,5	92,3	202
02550710	7 x 1,00	0,21	13,4	117,6	265
02551210	12 x 1,00	0,21	16,0	176,6	377

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02551810	18 x 1,00	0,21	19,0	272,5	551
02552510	25 x 1,00	0,21	22,5	359,3	725
02553210	32 x 1,00	0,21	24,1	430,8	862
02553410	34 x 1,00	0,21	25,3	462,5	938
02554210	42 x 1,00	0,21	27,0	544,4	1104
02555010	50 x 1,00	0,21	29,4	641,8	1271
02556010	60 x 1,00	0,21	31,2	744,9	1468
02550315	3 x 1,50	0,26	11,0	87,2	188
02550415	4 x 1,50	0,26	11,9	102,3	220
02550515	5 x 1,50	0,26	13,2	122,0	270
02550715	7 x 1,50	0,26	15,3	161,4	357
02551215	12 x 1,50	0,26	18,9	272,3	536
02551815	18 x 1,50	0,26	21,9	377,2	736
02552515	25 x 1,50	0,26	26,2	499,2	985
02553215	32 x 1,50	0,26	28,2	618,7	1199
02553415	34 x 1,50	0,26	29,4	651,4	1278
02554215	42 x 1,50	0,26	31,4	774,5	1513
02555015	50 x 1,50	0,26	33,8	899,6	1704
02556015	60 x 1,50	0,26	35,7	1067,3	1973
02550325	3 x 2,50	0,26	12,6	180,9	249
02550425	4 x 2,50	0,26	13,8	154,4	308
02550525	5 x 2,50	0,26	15,1	180,2	367
02550725	7 x 2,50	0,26	17,8	259,2	509
02551225	12 x 2,50	0,26	21,7	405,4	741
02551825	18 x 2,50	0,26	25,7	569,5	1049
02552525	25 x 2,50	0,26	30,4	765,7	1381
02553225	32 x 2,50	0,26	32,7	943,0	1667
02553425	34 x 2,50	0,26	33,8	995,6	1759
02554225	42 x 2,50	0,26	36,1	1213,1	2112

Other dimensions and colours are possible on request.



## CC 600 PVC control cable with numbered black cores, AWG 20 - AWG 10



Marking for CC 600 02041840:

SAB BRÖCKSKES · D-VIERSEN · 40 x 1,0 mm<sup>2</sup> CC 600 18 AWG/40c 02041840

AWM Style 21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90°C F 600V FT1 FT2 CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special PVC acc. to DIN VDE and UL/CSA
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	special oil resistant PVC acc. to DIN VDE and UL/CSA
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- UL recognized, CSA approved
- high mechanical loading capacity
- oil resistant

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	4 x d	
<i>flexible application:</i>	6 x d	
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b> -40/+70 °C	<b>UL/CSA</b> up to +90°C
<i>flexible application:</i>	+5/+70 °C up to +90°C	
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1, Oil 60 °C acc. to UL 758, Fuel Oil acc. to CSA-C 22.2 No. 210-05	
<b>Chem. resistance:</b>	see page N/9	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02042002	2 x 20	0,21	5,3	9,6	41	02041818	18 x 18	0,21	13,6	172,8	311
02042003	3 x 20	0,21	5,6	14,4	48	02041825	25 x 18	0,21	16,4	240,0	424
02042004	4 x 20	0,21	6,0	19,2	57	02041830	30 x 18	0,21	17,0	288,0	489
02042005	5 x 20	0,21	6,7	24,0	70	02041834	34 x 18	0,21	18,5	326,4	559
02042007	7 x 20	0,21	7,2	33,6	86	02041840	40 x 18	0,21	19,9	384,0	650
02042008	8 x 20	0,21	8,5	38,4	108	02041861	61 x 18	0,21	23,7	585,6	966
02042010	10 x 20	0,21	9,4	48,0	126	02041602	2 x 16	0,26	6,7	28,8	71
02042012	12 x 20	0,21	9,7	57,6	143	02041603	3 x 16	0,26	7,1	43,2	87
02042014	14 x 20	0,21	10,1	67,2	161	02041604	4 x 16	0,26	7,9	57,6	109
02042016	16 x 20	0,21	10,9	76,8	186	02041605	5 x 16	0,26	8,6	72,0	131
02042018	18 x 20	0,21	11,4	86,4	205	02041607	7 x 16	0,26	9,6	100,8	171
02042025	25 x 20	0,21	13,9	120,0	282	02041608	8 x 16	0,26	11,2	115,2	208
02042030	30 x 20	0,21	14,3	144,0	232	02041610	10 x 16	0,26	12,4	144,0	245
02042034	34 x 20	0,21	15,6	163,2	370	02041612	12 x 16	0,26	12,8	172,8	281
02042040	40 x 20	0,21	16,9	192,0	435	02041614	14 x 16	0,26	13,6	201,6	325
02042061	61 x 20	0,21	19,8	292,8	628	02041616	16 x 16	0,26	14,3	230,4	365
02041903	3 x 19	0,21	6,2	21,6	60	02041618	18 x 16	0,26	15,3	259,2	413
02041904	4 x 19	0,21	6,7	28,8	71	02041625	25 x 16	0,26	18,5	360,0	569
02041905	5 x 19	0,21	7,5	36,0	89	02041630	30 x 16	0,26	19,3	432,0	667
02041907	7 x 19	0,21	8,2	50,4	111	02041634	34 x 16	0,26	21,0	489,6	760
02041908	8 x 19	0,21	9,6	57,6	136	02041640	40 x 16	0,26	22,9	576,0	916
02041910	10 x 19	0,21	10,6	72,0	161	02041661	61 x 16	0,26	26,7	878,4	1309
02041912	12 x 19	0,21	10,9	86,4	182	02041402	2 x 14	0,26	8,1	48,0	108
02041914	14 x 19	0,21	11,4	100,8	205	02041403	3 x 14	0,26	8,6	72,0	132
02041916	16 x 19	0,21	12,0	115,2	228	02041404	4 x 14	0,26	9,5	96,0	166
02041918	18 x 19	0,21	12,9	129,6	261	02041405	5 x 14	0,26	10,6	120,0	208
02041925	25 x 19	0,21	15,6	180,0	357	02041407	7 x 14	0,26	11,6	168,0	263
02041930	30 x 19	0,21	16,1	216,0	410	02041408	8 x 14	0,26	13,8	192,0	322
02041934	34 x 19	0,21	17,8	244,8	478	02041410	10 x 14	0,26	15,2	240,0	383
02041940	40 x 19	0,21	19,0	288,0	549	02041412	12 x 14	0,26	15,7	288,0	440
02041961	61 x 19	0,21	22,8	439,2	824	02041418	18 x 14	0,26	18,7	432,0	643
02041802	2 x 18	0,21	6,0	19,2	55	02041425	25 x 14	0,26	23,1	600,0	904
02041803	3 x 18	0,21	6,4	28,8	68	02041203	3 x 12	0,31	10,2	115,2	196
02041804	4 x 18	0,21	7,0	38,4	82	02041204	4 x 12	0,31	11,3	153,6	246
02041805	5 x 18	0,21	7,8	48,0	102	02041205	5 x 12	0,31	12,6	192,0	304
02041807	7 x 18	0,21	8,5	67,2	128	02041207	7 x 12	0,31	13,9	268,8	397
02041808	8 x 18	0,21	9,9	76,8	157	02041003	3 x 10	0,31	12,1	172,8	284
02041812	12 x 18	0,21	11,3	115,2	211	02041004	4 x 10	0,31	13,2	230,4	351
02041814	14 x 18	0,21	12,1	134,4	245	02041005	5 x 10	0,31	14,9	288,0	440

Continued on next page



## CC 600 PVC control cable with numbered black cores, AWG 8 - AWG 2



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

Marking for CC 600 02040805:

### Construction:

<b>Conductor:</b>	bare copper strands acc. to UL/CSA
<b>Insulation:</b>	special PVC acc. to DIN VDE and UL/CSA
<b>Colour code:</b>	black cores with consecutive numbers; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	special oil resistant PVC acc. to DIN VDE and UL/CSA
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- UL recognized, CSA approved
- high mechanical loading capacity
- oil resistant
- on request construction with metric conductor stranding and VDE-Reg. no.

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	4 x d	
<i>flexible application:</i>	6 x d	
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA</b>
<i>fixed laying:</i>	-40/+70 °C	up to +90°C
<i>flexible application:</i>	+5/+70 °C	up to +90°C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1, Oil 60 °C acc. to UL 758, Fuel Oil acc. to CSA-C 22.2 No. 210-05	
<b>Chem. resistance:</b>	see page N/9	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02040803	3 x 8	0,41	15,3	253,4	449
02040804	4 x 8	0,41	17,0	337,9	567
02040805	5 x 8	0,41	18,9	422,4	696
02040604	4 x 6	0,41	20,9	541,4	768
02040605	5 x 6	0,41	23,6	676,8	969
02040404	4 x 4	0,41	25,6	844,8	1355
02040204	4 x 2	0,41	30,4	1344,0	1998

Other dimensions and colours are possible on request.



## CC 600 blue PVC control cable with numbered blue cores, AWG 20 - AWG 10



Marking for CC 600 blue 02081840:

SAB BRÖCKSKES · D-VIERSEN · 40 x 1,0 mm<sup>2</sup> CC 600 blue 18 AWG/40c 02081840

AWM Style 21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90°C F 600V FT1 FT2 CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special PVC acc. to DIN VDE and UL/CSA
<b>Colour code:</b>	blue cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	special oil resistant PVC acc. to DIN VDE and UL/CSA
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- UL recognized, CSA approved
- high mechanical loading capacity
- oil resistant

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	4 x d	
<i>flexible application:</i>	6 x d	
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b> -40/+70 °C	<b>UL/CSA</b> up to +90°C
<i>flexible application:</i>	+5/+70 °C	up to +90°C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1, Oil 60 °C acc. to UL 758, Fuel Oil acc. to CSA-C 22.2 No. 210-05	
<b>Chem. resistance:</b>	see page N/9	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02082002	2 x 20	0,21	5,3	9,6	41	02081818	18 x 18	0,21	13,6	172,8	311
02082003	3 x 20	0,21	5,6	14,4	48	02081825	25 x 18	0,21	16,4	240,0	424
02082004	4 x 20	0,21	6,0	19,2	57	02081830	30 x 18	0,21	17,0	288,0	489
02082005	5 x 20	0,21	6,7	24,0	70	02081834	34 x 18	0,21	18,5	326,4	559
02082007	7 x 20	0,21	7,2	33,6	86	02081840	40 x 18	0,21	19,9	384,0	650
02082008	8 x 20	0,21	8,5	38,4	108	02081861	61 x 18	0,21	23,7	585,6	966
02082010	10 x 20	0,21	9,4	48,0	126	02081602	2 x 16	0,26	6,7	28,8	71
02082012	12 x 20	0,21	9,7	57,6	143	02081603	3 x 16	0,26	7,1	43,2	87
02082014	14 x 20	0,21	10,1	67,2	161	02081604	4 x 16	0,26	7,9	57,6	109
02082016	16 x 20	0,21	10,9	76,8	186	02081605	5 x 16	0,26	8,6	72,0	131
02082018	18 x 20	0,21	11,4	86,4	205	02081607	7 x 16	0,26	9,6	100,8	171
02082025	25 x 20	0,21	13,9	120,0	282	02081608	8 x 16	0,26	11,2	115,2	208
02082030	30 x 20	0,21	14,3	144,0	232	02081610	10 x 16	0,26	12,4	144,0	245
02082034	34 x 20	0,21	15,6	163,2	370	02081612	12 x 16	0,26	12,8	172,8	281
02082040	40 x 20	0,21	16,9	192,0	435	02081614	14 x 16	0,26	13,6	201,6	325
02082061	61 x 20	0,21	19,8	292,8	628	02081616	16 x 16	0,26	14,3	230,4	365
02081903	3 x 19	0,21	6,2	21,6	60	02081618	18 x 16	0,26	15,3	259,2	413
02081904	4 x 19	0,21	6,7	28,8	71	02081625	25 x 16	0,26	18,5	360,0	569
02081905	5 x 19	0,21	7,5	36,0	89	02081630	30 x 16	0,26	19,3	432,0	667
02081907	7 x 19	0,21	8,2	50,4	111	02081634	34 x 16	0,26	21,0	489,6	760
02081908	8 x 19	0,21	9,6	57,6	136	02081640	40 x 16	0,26	22,9	576,0	916
02081910	10 x 19	0,21	10,6	72,0	161	02081661	61 x 16	0,26	26,7	878,4	1309
02081912	12 x 19	0,21	10,9	86,4	182	02081402	2 x 14	0,26	8,1	48,0	108
02081914	14 x 19	0,21	11,4	100,8	205	02081403	3 x 14	0,26	8,6	72,0	132
02081916	16 x 19	0,21	12,0	115,2	228	02081404	4 x 14	0,26	9,5	96,0	166
02081918	18 x 19	0,21	12,9	129,6	261	02081405	5 x 14	0,26	10,6	120,0	208
02081925	25 x 19	0,21	15,6	180,0	357	02081407	7 x 14	0,26	11,6	168,0	263
02081930	30 x 19	0,21	16,1	216,0	410	02081408	8 x 14	0,26	13,8	192,0	322
02081934	34 x 19	0,21	17,8	244,8	478	02081410	10 x 14	0,26	15,2	240,0	383
02081940	40 x 19	0,21	19,0	288,0	549	02081412	12 x 14	0,26	15,7	288,0	440
02081961	61 x 19	0,21	22,8	439,2	824	02081418	18 x 14	0,26	18,7	432,0	643
02081802	2 x 18	0,21	6,0	19,2	55	02081425	25 x 14	0,26	23,1	600,0	904
02081803	3 x 18	0,21	6,4	28,8	68	02081203	3 x 12	0,31	10,2	115,2	196
02081804	4 x 18	0,21	7,0	38,4	82	02081204	4 x 12	0,31	11,3	153,6	246
02081805	5 x 18	0,21	7,8	48,0	102	02081205	5 x 12	0,31	12,6	192,0	304
02081807	7 x 18	0,21	8,5	67,2	128	02081207	7 x 12	0,31	13,9	268,8	397
02081808	8 x 18	0,21	9,9	76,8	157	02081003	3 x 10	0,31	12,1	172,8	284
02081812	12 x 18	0,21	11,3	115,2	211	02081004	4 x 10	0,31	13,2	230,4	351
02081814	14 x 18	0,21	12,1	134,4	245	02081005	5 x 10	0,31	14,9	288,0	440

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## CC 600 blue PVC control cable with numbered blue cores. AWG 8 - AWG 2



SAB BRÖCKSKES · D-VIERSEN · CC 600 blue 8 AWG/5c 02080805 AWM Style 21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90°C F 600V FT1 FT2

Marking for CC 600 blue 02080805:

### Construction:

<b>Conductor:</b>	bare copper strands acc. to UL/CSA
<b>Insulation:</b>	special PVC acc. to DIN VDE and UL/CSA
<b>Colour code:</b>	blue cores with consecutive numbers; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	special oil resistant PVC acc. to DIN VDE and UL/CSA
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- UL recognized, CSA approved
- high mechanical loading capacity
- oil resistant
- on request construction with metric conductor stranding and VDE-Reg. no.

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	4 x d	
<i>flexible application:</i>	6 x d	
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA</b>
<i>fixed laying:</i>	-40/+70 °C	up to +90°C
<i>flexible application:</i>	+5/+70 °C	up to +90°C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1, Oil 60 °C acc. to UL 758, Fuel Oil acc. to CSA-C 22.2 No. 210-05	
<b>Chem. resistance:</b>	see page N/9	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

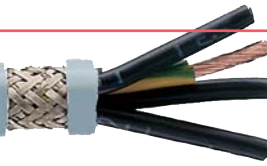
item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02080804	4 x 8	0,41	17,0	337,9	567
02080805	5 x 8	0,41	18,9	422,4	696
02080604	4 x 6	0,41	20,9	541,4	768
02080605	5 x 6	0,41	23,6	676,8	969
02080404	4 x 4	0,41	25,6	844,8	1355
02080204	4 x 2	0,41	30,4	1344,0	1998

Other dimensions and colours are possible on request.



## CC 600 CY Lean PVC control cable with numbered cores and overall copper screen, AWG 20 - AWG 10

21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90° 600V FT1 FT2 CE



Marking for CC 600 CY Lean 32381804:

SAB BRÖCKSKES · D-VIERSEN · 4 x 1,0 mm<sup>2</sup> CC 600 CY Lean 18 AWG/4c 32381804

VDE-Reg.-Nr. 7000 AWM Style 21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90° 600V FT1 FT2 CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special PVC acc. to DIN VDE and UL/CSA
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	special oil resistant PVC acc. to DIN VDE and UL/CSA
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- UL recognized, CSA approved
- good EMC characteristics
- reduced outer diameter
- small bending radius
- high mechanical loading capacity
- oil resistant

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2; core/screen 1000 V	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA:</b>
<i>fixed laying:</i>	-40/+70 °C	up to +90 °C
<i>flexible application:</i>	+5/+70 °C	up to +90 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - PVC, TM5 acc. to DIN VDE 0281 part 1 + HD 21.1	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

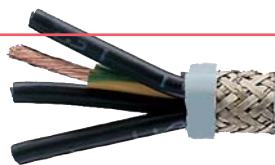
item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
32382002	2 x 20	0,21	5,8	25,5	45
32382003	3 x 20	0,21	6,2	30,4	54
32382004	4 x 20	0,21	6,6	36,9	65
32382005	5 x 20	0,21	7,2	43,7	78
32382007	7 x 20	0,21	7,9	55,0	97
32382012	12 x 20	0,21	10,2	86,8	153
32382025	25 x 20	0,21	15,0	206,0	332
32381902	2 x 19	0,21	6,4	30,5	52
32381903	3 x 19	0,21	6,7	39,3	64
32381904	4 x 19	0,21	7,2	48,5	77
32381905	5 x 19	0,21	8,0	57,5	95
32381907	7 x 19	0,21	8,7	76,7	122
32381912	12 x 19	0,21	11,6	140,4	206
32381918	18 x 19	0,21	13,8	189,4	292
32381925	25 x 19	0,21	16,7	278,3	412
32381802	2 x 18	0,21	6,6	36,9	58
32381803	3 x 18	0,21	6,9	48,3	73
32381804	4 x 18	0,21	7,7	59,7	91
32381805	5 x 18	0,21	8,3	71,7	109
32381807	7 x 18	0,21	9,2	93,4	145
32381812	12 x 18	0,21	12,2	169,4	240
32381818	18 x 18	0,21	14,5	258,5	362
32381825	25 x 18	0,21	17,3	349,9	478

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
32381602	2 x 16	0,26	7,2	48,5	74
32381603	3 x 16	0,26	7,8	64,6	97
32381604	4 x 16	0,26	8,4	81,3	114
32381605	5 x 16	0,26	9,3	98,2	140
32381607	7 x 16	0,26	10,1	129,9	177
32381612	12 x 16	0,26	13,7	232,6	311
32381618	18 x 16	0,26	16,4	357,1	479
32381622	22 x 16	0,26	18,0	427,4	576
32381625	25 x 16	0,26	19,6	483,7	634
32381403	3 x 14	0,26	9,3	98,2	136
32381404	4 x 14	0,26	10,0	125,1	168
32381405	5 x 14	0,26	11,3	167,8	219
32381407	7 x 14	0,26	12,5	222,4	284
32381412	12 x 14	0,26	16,8	386,4	487
32381418	18 x 14	0,26	19,8	556,0	701
32381425	25 x 14	0,26	24,0	741,7	985
32381203	3 x 12	0,31	11,0	162,8	205
32381204	4 x 12	0,31	12,1	207,8	260
32381205	5 x 12	0,31	13,4	251,6	319
32381207	7 x 12	0,31	14,9	354,7	428
32381003	3 x 10	0,31	12,7	227,4	282
32381004	4 x 10	0,31	13,9	290,3	357
32381005	5 x 10	0,31	15,7	385,4	463

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## CC 600 CY Lean PVC control cable with numbered cores and overall copper screen, AWG 8 - AWG 2



Style 21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90° 600V FT1

SAB BRÖCKSKES · D-VIERSEN · CC 600 CY Lean 8 AWG/4c 32380804 AWM Style 21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90° 600V FT1 FT2

Marking for CC 600 CY Lean 32380804:

### Construction:

<b>Conductor:</b>	bare copper strands acc. to UL/CSA
<b>Insulation:</b>	special PVC acc. to DIN VDE and UL/CSA
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	special oil resistant PVC acc. to DIN VDE and UL/CSA
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- UL recognized, CSA approved
- good EMC characteristics
- reduced outer diameter
- small bending radius
- high mechanical loading capacity
- oil resistant

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2; core/screen 1000 V	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA:</b>
<i>fixed laying:</i>	-40/+70 °C	up to +90 °C
<i>flexible application:</i>	+5/+70 °C	up to +90 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - PVC, TM5 acc. to DIN VDE 0281 part 1 + HD 21.1	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
32380804	4 x 8	0,41	18,6	508,9	648
32380604	4 x 6	0,41	22,8	753,8	946
32380404	4 x 4	0,41	27,6	1133,3	1462

Other dimensions and colours are possible on request.



## CC 600 CY PVC control cable with numbered cores, inner sheath and overall copper screen, AWG 20 - AWG 10



Marking for CC 600 CY 02591803:

SAB BRÖCKSKES · D-VIERSEN · 4 x 1,0 mm<sup>2</sup> 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 CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special PVC acc. to DIN VDE and UL/CSA
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Inner sheath:</b>	special PVC acc. to DIN VDE and UL/CSA
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	special oil resistant PVC acc. to DIN VDE and UL/CSA
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- UL recognized, CSA approved
- high mechanical loading capacity
- oil resistant

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2; core/screen 1000 V	
<b>Min. bending radius</b>		
fixed laying:	5 x d	
flexible application:	10 x d	
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA:</b>
fixed laying:	-40/+70 °C	up to +90 °C
flexible application:	+5/+70 °C	up to +90 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	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	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02592002	2 x 20	0,21	7,4	30,1	82
02592003	3 x 20	0,21	7,9	36,9	95
02592004	4 x 20	0,21	8,4	42,0	109
02592007	7 x 20	0,21	9,6	60,3	146
02592012	12 x 20	0,21	12,5	114,5	243
02592025	25 x 20	0,21	16,7	219,8	428
02591902	2 x 19	0,21	8,1	37,1	98
02591903	3 x 19	0,21	8,6	47,5	113
02591904	4 x 19	0,21	9,1	55,0	129
02591905	5 x 19	0,21	10,1	81,6	164
02591907	7 x 19	0,21	11,6	102,3	210
02591912	12 x 19	0,21	13,7	147,8	292
02591918	18 x 19	0,21	15,9	198,5	395
02591925	25 x 19	0,21	18,9	293,6	543
02591802	2 x 18	0,21	8,3	42,0	105
02591803	3 x 18	0,21	8,6	52,6	118
02591804	4 x 18	0,21	9,4	64,9	141
02591805	5 x 18	0,21	10,2	93,9	174
02591807	7 x 18	0,21	11,1	114,2	209
02591812	12 x 18	0,21	14,1	177,3	324
02591818	18 x 18	0,21	16,3	272,3	461
02591825	25 x 18	0,21	19,6	355,2	612

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02591602	2 x 16	0,26	9,1	55,0	129
02591603	3 x 16	0,26	9,5	69,8	146
02591604	4 x 16	0,26	10,3	103,7	182
02591605	5 x 16	0,26	11,0	122,8	214
02591607	7 x 16	0,26	12,2	153,4	262
02591612	12 x 16	0,26	15,6	243,5	408
02591618	18 x 16	0,26	18,4	371,7	587
02591625	25 x 16	0,26	22,3	494,3	815
02591403	3 x 14	0,26	11,2	119,1	215
02591404	4 x 14	0,26	12,1	148,0	256
02591405	5 x 14	0,26	13,2	180,9	307
02591407	7 x 14	0,26	14,4	236,7	381
02591412	12 x 14	0,26	18,9	401,8	622
02591425	25 x 14	0,26	26,1	761,7	1151
02591203	3 x 12	0,31	13,0	173,1	299
02591204	4 x 12	0,31	14,1	220,0	361
02591205	5 x 12	0,31	15,3	260,0	424
02591207	7 x 12	0,31	16,9	372,5	553
02591003	3 x 10	0,31	14,9	242,1	406
02591004	4 x 10	0,31	16,0	301,9	480
02591005	5 x 10	0,31	17,9	396,4	605

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## CC 600 CY PVC control cable with numbered cores, inner sheath and overall copper screen, AWG 8 - AWG 2



SAB BRÖCKSKES · D-VIERSEN · CC 600 CY 8 AWG/4c 02590804 AWM Style 21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90°C F 600V FT1 FT2

### Construction:

<b>Conductor:</b>	bare copper strands acc. to UL/CSA
<b>Insulation:</b>	special PVC acc. to DIN VDE and UL/CSA
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Inner sheath:</b>	special PVC acc. to DIN VDE and UL/CSA
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	special oil resistant PVC acc. to DIN VDE and UL/CSA
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- UL recognized, CSA approved
- high mechanical loading capacity
- oil resistant
- on request construction with metric conductor stranding and VDE-Reg. no.

### Technical data:

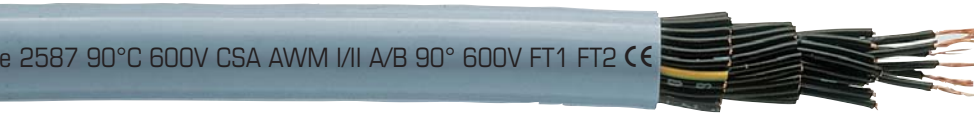
<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2; core/screen 1000 V	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA:</b>
<i>fixed laying:</i>	-40/+70 °C	up to +90 °C
<i>flexible application:</i>	+5/+70 °C	up to +90 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	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	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02590804	4 x 8	0,41	21,0	517,1	820
02590604	4 x 6	0,41	25,1	771,1	1186
02590404	4 x 4	0,41	30,1	1149,8	1797
02590204	4 x 2	0,41	34,4	1550,3	2401

Other dimensions and colours are possible on request.



## CC 600 T PVC control cable with numbered cores and extended temperature range, AWG 20 - AWG 10



Marking for CC 600 T 02581840:

SAB BRÖCKSKES · D-VIERSEN · 40 x 1,0 mm<sup>2</sup> CC 600 T 18 AWG/40c 02581840

AWM Style 2586 105°C 600V CSA AWM I/II A/B 105°C 600V FT1 FT2 CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special heat resistant PVC
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	special heat resistant PVC
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- UL recognized, CSA approved
- Temperature range up to + 105°C

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	4 x d	
<i>flexible application:</i>	6 x d	
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA</b>
<i>fixed laying:</i>	-40/+90 °C	up to +105°C
<i>flexible application:</i>	+5/+90 °C	up to +105°C
<i>short time use:</i>	+105 °C	
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	acc. to internal standard, see page N/13	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02582002	2 x 20	0,21	5,3	10,3	39
02582003	3 x 20	0,21	5,6	15,4	46
02582004	4 x 20	0,21	6,0	20,5	54
02582005	5 x 20	0,21	6,7	25,6	67
02582007	7 x 20	0,21	7,2	35,9	83
02582008	8 x 20	0,21	8,5	41,0	103
02582010	10 x 20	0,21	9,4	51,3	121
02582012	12 x 20	0,21	9,7	61,5	138
02582014	14 x 20	0,21	10,1	71,8	154
02582016	16 x 20	0,21	10,9	82,0	179
02582018	18 x 20	0,21	11,4	92,3	198
02582025	25 x 20	0,21	13,9	128,2	272
02582030	30 x 20	0,21	14,3	153,8	311
02582034	34 x 20	0,21	15,6	174,3	358
02582040	40 x 20	0,21	16,9	205,1	418
02582061	61 x 20	0,21	19,8	312,8	608
02581903	3 x 19	0,21	6,2	21,6	57
02581904	4 x 19	0,21	6,7	28,8	68
02581905	5 x 19	0,21	7,5	36,0	85
02581907	7 x 19	0,21	8,2	50,4	107
02581908	8 x 19	0,21	9,6	57,6	131
02581910	10 x 19	0,21	10,6	72,0	154
02581912	12 x 19	0,21	10,9	86,4	175
02581914	14 x 19	0,21	11,4	100,8	197
02581916	16 x 19	0,21	12,2	115,2	227
02581918	18 x 19	0,21	12,9	129,6	252
02581925	25 x 19	0,21	15,6	180,0	345
02581930	30 x 19	0,21	16,1	216,0	395
02581934	34 x 19	0,21	17,8	244,8	461
02581940	40 x 19	0,21	19,0	288,0	529
02581961	61 x 19	0,21	22,8	439,2	794
02581802	2 x 18	0,21	6,0	19,2	53
02581803	3 x 18	0,21	6,4	28,8	65
02581804	4 x 18	0,21	7,0	38,4	79
02581805	5 x 18	0,21	7,8	48,0	98
02581807	7 x 18	0,21	8,5	67,2	123
02581808	8 x 18	0,21	9,9	76,8	151
02581810	10 x 18	0,21	11,0	96,0	178
02581812	12 x 18	0,21	11,3	115,2	204
02581814	14 x 18	0,21	12,1	134,4	236

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02581818	18 x 18	0,21	13,6	172,8	300
02581825	25 x 18	0,21	16,4	240,0	411
02581830	30 x 18	0,21	17,0	288,0	474
02581834	34 x 18	0,21	18,5	326,4	540
02581840	40 x 18	0,21	19,9	384,0	631
02581861	61 x 18	0,21	23,7	585,6	935
02581602	2 x 16	0,26	6,7	28,8	69
02581603	3 x 16	0,26	7,1	43,2	84
02581604	4 x 16	0,26	7,9	57,6	105
02581605	5 x 16	0,26	8,6	72,0	127
02581607	7 x 16	0,26	9,6	100,8	166
02581608	8 x 16	0,26	11,2	115,2	201
02581610	10 x 16	0,26	12,4	144,0	238
02581612	12 x 16	0,26	12,8	172,8	272
02581614	14 x 16	0,26	13,6	201,6	315
02581616	16 x 16	0,26	14,3	230,4	354
02581618	18 x 16	0,26	15,3	259,2	400
02581625	25 x 16	0,26	18,5	360,0	551
02581630	30 x 16	0,26	19,3	432,0	650
02581634	34 x 16	0,26	21,0	489,6	739
02581640	40 x 16	0,26	22,9	576,0	870
02581661	61 x 16	0,26	26,7	878,4	1277
02581402	2 x 14	0,26	8,1	48,0	105
02581403	3 x 14	0,26	8,6	72,0	128
02581404	4 x 14	0,26	9,5	96,0	161
02581405	5 x 14	0,26	10,6	120,0	200
02581407	7 x 14	0,26	11,6	168,0	255
02581408	8 x 14	0,26	13,8	192,0	313
02581410	10 x 14	0,26	15,2	240,0	371
02581412	12 x 14	0,26	15,7	288,0	428
02581418	18 x 14	0,26	18,7	432,0	627
02581425	25 x 14	0,26	23,1	600,0	879
02581203	3 x 12	0,31	10,2	115,2	190
02581204	4 x 12	0,31	11,3	153,6	239
02581205	5 x 12	0,31	12,6	192,0	295
02581207	7 x 12	0,31	13,9	268,8	386
02581003	3 x 10	0,31	12,1	172,8	276
02581004	4 x 10	0,31	13,2	230,4	342
02581005	5 x 10	0,31	14,9	288,0	428

Continued on next page



## CC 600 T PVC control cable with numbered cores and extended temperature range, AWG 8 - AWG 2



AWM Style 2586 105°C 600V CSA AWM I/II A/B 105°C 600V FT1 FT2

SAB BRÖCKSKES · D-VIERSEN · CC 600 T 8 AWG/5c AWM Style 2586 105°C 600V CSA AWM I/II A/B 105°C 600V FT1 FT2

Marking for CC 600 T 02580805:

### Construction:

<b>Conductor:</b>	bare copper strands acc. to UL/CSA
<b>Insulation:</b>	special heat resistant PVC
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	special heat resistant PVC
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- UL recognized, CSA approved
- Temperature range up to + 105°C
- on request construction with metric conductor stranding

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> Uo/U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	4 x d	
<i>flexible application:</i>	6 x d	
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA</b>
<i>fixed laying:</i>	-40/+90 °C	up to +105°C
<i>flexible application:</i>	+5/+90 °C	up to +105°C
<i>short time use:</i>	+105 °C	
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	acc. to internal standard, see page N/13	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02580804	4 x 8	0,41	17,0	384,0	564
02580805	5 x 8	0,41	18,9	480,0	684
02580604	4 x 6	0,41	20,9	614,4	762
02580404	4 x 4	0,41	25,6	960,0	1350
02580204	4 x 2	0,41	30,4	1344,0	1991

Other dimensions and colours are possible on request.



## CC 600 CY T PVC control cable with numbered cores, extended temperature range and overall copper screen, AWG 20 - AWG 10



Marking for CC 600 CY T 02781850:

SAB BRÖCKSKES · D-VIERSEN · 50 x 1,0 mm<sup>2</sup> CC 600 CY T 18 AWG/50c 02781850

AWM Style 2586 105°C 600V CSA AWM I/II A/B 105°C 600V FT1 FT2 CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special heat resistant PVC
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers with PETP foil over the outer layer
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	special heat resistant PVC
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- UL recognized, CSA approved
- Temperature range up to + 105°C

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2; core/screen: 1000 V	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA</b>
<i>fixed laying:</i>	-40/+90 °C	up to +105°C
<i>flexible application:</i>	+5/+90 °C	up to +105°C
<i>short time use:</i>	+105 °C	
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	acc. to internal standard, see page N/13	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02782002	2 x 20	0,21	5,8	26,0	46
02782003	3 x 20	0,21	6,2	31,5	56
02782004	4 x 20	0,21	6,6	48,7	66
02782007	7 x 20	0,21	7,9	68,2	100
02782012	12 x 20	0,21	10,6	111,5	175
02782015	15 x 20	0,21	11,6	128,1	210
02782025	25 x 20	0,21	14,6	196,7	320
02781802	2 x 18	0,21	6,6	47,4	60
02781803	3 x 18	0,21	6,9	57,6	75
02781804	4 x 18	0,21	7,7	70,3	93
02781805	5 x 18	0,21	8,3	85,6	111
02781807	7 x 18	0,21	9,2	105,6	143
02781812	12 x 18	0,21	12,2	166,9	245
02781815	15 x 18	0,21	13,6	205,2	304
02781818	18 x 18	0,21	14,3	240,8	343
02781825	25 x 18	0,21	17,3	343,7	483
02781850	50 x 18	0,21	23,3	620,3	902
02781602	2 x 16	0,26	7,2	58,3	74
02781603	3 x 16	0,26	7,8	75,3	95
02781604	4 x 16	0,26	8,4	95,3	116
02781605	5 x 16	0,26	9,3	110,5	144

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02781607	7 x 16	0,26	10,3	150,7	193
02781612	12 x 16	0,26	13,7	231,2	319
02781615	15 x 16	0,26	15,2	285,3	393
02781618	18 x 16	0,26	16,4	358,2	475
02781625	25 x 16	0,26	19,6	476,2	642
02781650	50 x 16	0,26	25,8	881,0	1179
02781403	3 x 14	0,26	9,3	110,5	139
02781404	4 x 14	0,26	10,2	145,8	184
02781405	5 x 14	0,26	11,4	171,8	227
02781407	7 x 14	0,26	12,5	222,2	289
02781412	12 x 14	0,26	16,8	388,0	498
02781418	18 x 14	0,26	19,8	548,8	709
02781425	25 x 14	0,26	23,9	754,0	979
02781203	3 x 12	0,31	10,9	165,8	205
02781204	4 x 12	0,31	12,1	206,1	264
02781205	5 x 12	0,31	13,2	252,9	320
02781207	7 x 12	0,31	15,0	337,7	433
02781003	3 x 10	0,31	12,7	232,8	291
02781004	4 x 10	0,31	13,9	298,0	365
02781005	5 x 10	0,31	15,4	358,1	450

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## CC 600 CY T PVC control cable with numbered cores, extended temperature range and overall copper screen, AWG 8 - AWG 2



SAB BRÖCKSKES · D-VIERSEN · CC 600 CY T 8 AWG/4c 02780804 AWM Style 2586 105°C 600V CSA AWM I/II A/B 105°C 600V FT1 FT2

### Construction:

<b>Conductor:</b>	bare copper strands acc. to UL/CSA
<b>Insulation:</b>	special heat resistant PVC
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers with PETP foil over the outer layer
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	special heat resistant PVC
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- UL recognized, CSA approved
- Temperature range up to + 105°C
- on request construction with metric conductor stranding

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2; core/screen: 1000 V	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA</b>
<i>fixed laying:</i>	-40/+90 °C	up to +105°C
<i>flexible application:</i>	+5/+90 °C	up to +105°C
<i>short time use:</i>	+105 °C	
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	acc. to internal standard, see page N/13	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02780804	4 x 8	0,41	18,6	497,9	653
02780604	4 x 6	0,41	22,5	752,0	950
02780404	4 x 4	0,41	27,6	1127,0	1414
02780204	4 x 2	0,41	31,5	1541,2	1895
02780104	4 x 1	0,41	36,0	2151,9	2644

Other dimensions and colours are possible on request.



## CC 600 DS T PVC control cable with numbered cores, extended temperature range and double screen



Marking for CC 600 DS T 02871425:

SAB BRÖCKSKES · D-VIERSEN · 12 x 2,5 mm<sup>2</sup> CC 600 DS T 14 AWG/12c 02871412

UL AWM Style 2586 105°C 600V CSA AWM I/II A/B 105°C 600V FT1 FT2 CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special heat resistant PVC
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	Alu-foil with a drain wire
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	special heat resistant PVC
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

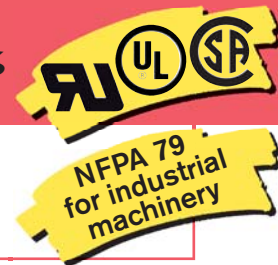
- UL recognized, CSA approved
- Temperature range up to + 105°C
- very good EMC characteristics

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2; core/screen: 1000 V	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA</b>
<i>fixed laying:</i>	-40/+90 °C	up to +105°C
<i>flexible application:</i>	+5/+90 °C	up to +105°C
<i>short time use:</i>	+105 °C	
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	acc. to internal standard, see page N/13	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

item no.	no. of cores x cross section n x AWG	drain wire	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02872002	2 x 20	20 AWG	0,21	6,3	27,0	54
02872003	3 x 20	20 AWG	0,21	6,7	32,5	64
02872004	4 x 20	20 AWG	0,21	7,1	49,7	74
02872007	7 x 20	20 AWG	0,21	8,4	69,4	108
02872009	9 x 20	20 AWG	0,21	10,1	100,0	145
02872012	12 x 20	20 AWG	0,21	11,2	113,0	190
02872015	15 x 20	20 AWG	0,21	12,3	130,0	225
02872025	25 x 20	20 AWG	0,21	15,3	198,7	335
02871802	2 x 18	18 AWG	0,21	7,5	49,4	76
02871803	3 x 18	18 AWG	0,21	7,8	59,2	91
02871804	4 x 18	18 AWG	0,21	8,4	71,8	106
02871805	5 x 18	18 AWG	0,21	9,2	87,7	128
02871807	7 x 18	18 AWG	0,21	9,9	107,1	156
02871809	9 x 18	18 AWG	0,21	12,1	130,0	200
02871812	12 x 18	18 AWG	0,21	13,1	169,1	265
02871815	15 x 18	18 AWG	0,21	14,3	207,1	319
02871818	18 x 18	18 AWG	0,21	15,2	243,3	366
02871825	25 x 18	18 AWG	0,21	18,2	346,7	508
02871850	50 x 18	18 AWG	0,21	24,0	621,5	919
02871602	2 x 16	16 AWG	0,26	7,9	68,3	90
02871603	3 x 16	16 AWG	0,26	8,6	85,3	112
02871604	4 x 16	16 AWG	0,26	9,4	105,3	135
02871605	5 x 16	16 AWG	0,26	10,3	121,5	165
02871607	7 x 16	16 AWG	0,26	11,3	162,5	217
02871609	9 x 16	16 AWG	0,26	13,7	203,8	285
02871612	12 x 16	16 AWG	0,26	14,7	244,2	345
02871615	15 x 16	16 AWG	0,26	16,2	299,3	420
02871618	18 x 16	16 AWG	0,26	17,4	345,1	505
02871625	25 x 16	16 AWG	0,26	20,6	492,2	674
02871650	50 x 16	16 AWG	0,26	26,9	900,4	1221
02871403	3 x 14	14 AWG	0,26	10,5	150,5	171
02871404	4 x 14	14 AWG	0,26	11,4	185,8	220
02871405	5 x 14	14 AWG	0,26	12,6	210,8	265
02871407	7 x 14	14 AWG	0,26	13,7	262,4	324
02871409	9 x 14	14 AWG	0,26	16,8	332,0	475
02871412	12 x 14	14 AWG	0,26	18,0	414,7	538
02871418	18 x 14	14 AWG	0,26	21,0	608,8	750
02871425	25 x 14	14 AWG	0,26	25,1	814,0	1024
02871203	3 x 12	14 AWG	0,31	12,1	205,8	237
02871204	4 x 12	14 AWG	0,31	13,3	245,3	295
02871205	5 x 12	14 AWG	0,31	14,4	289,9	354
02871207	7 x 12	14 AWG	0,31	16,2	377,3	465
02871003	3 x 10	14 AWG	0,31	13,9	272,8	325
02871004	4 x 10	14 AWG	0,31	15,1	338,0	399
02871005	5 x 10	14 AWG	0,31	16,6	398,3	485
02870804	4 x 8	14 AWG	0,41	19,8	523,7	650

Other dimensions and colours are possible on request.



## CC 600 MTW Type MTW PVC control cable and Machine-Tool Cable with numbered cores



21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90°C 1000V FT1 FT2

Marking for CC 600 MTW 35501805:

SAB BRÖCKSKES · D-VIERSEN · 5 x 1,0 mm<sup>2</sup> 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

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228 classe 5 and UL standard 758 Tabelle 5.1 + UL 1581 Tabelle 20.1
<b>Insulation:</b>	special formulated PVC/Nylon
<b>Colour code:</b>	black cores with consecutive numbers green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	special oil resistant PVC
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- UL recognized, CSA approved and (UL) listed
- Flexible cable for cable tray use
- oil resistant
- NFPA 79 for industrial machinery

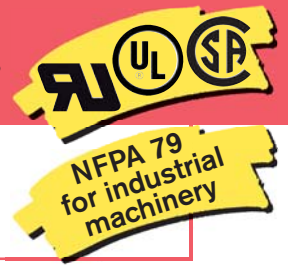
### Technical data:

<b>Voltage:</b>	<b>UL-AWM / (UL)</b> 600 V	<b>CSA</b> 1000 V
<b>Testing voltage U:</b>	4000 V	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	4 x d	
<i>flexible application:</i>	6 x d	
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>(UL) / CSA</b> -25/+90 °C	
<i>storage ambient:</i>	-40/+90°C	
<b>Fire performance:</b>	CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1, Oil 60 °C acc. to UL 758, Fuel Oil acc. to CSA-C 22.2 No. 210-05	
<b>Impact and Crushing test:</b>	acc. to UL 1277	
<b>Machinery Area:</b>	yes	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
35501803	3 x 18	0,21	7,7	28,8	86
35501804	4 x 18	0,21	8,3	38,4	103
35501805	5 x 18	0,21	9,1	48,0	123
35501807	7 x 18	0,21	9,8	67,2	151
35501809	9 x 18	0,21	12,0	86,4	196
35501812	12 x 18	0,21	12,6	115,2	235
35501816	16 x 18	0,21	14,7	153,6	320
35501818	18 x 18	0,21	15,4	172,8	354
35501819	19 x 18	0,21	16,2	182,4	374
35501825	25 x 18	0,21	18,2	240,0	465
35501827	27 x 18	0,21	18,2	259,2	491
35501837	37 x 18	0,21	20,3	355,2	639
35501850	50 x 18	0,21	24,8	480,0	898
35501603	3 x 16	0,26	8,4	43,2	107
35501604	4 x 16	0,26	9,1	57,6	128
35501605	5 x 16	0,26	9,8	72,0	153
35501607	7 x 16	0,26	10,7	100,8	191
35501608	8 x 16	0,26	12,3	115,2	229
35501609	9 x 16	0,26	13,2	129,6	255
35501612	12 x 16	0,26	14,5	172,8	323
35501616	16 x 16	0,26	16,1	230,4	409
35501618	18 x 16	0,26	16,8	259,2	452
35501619	19 x 16	0,26	16,8	273,6	466
35501625	25 x 16	0,26	20,1	360,0	604
35501627	27 x 16	0,26	20,1	388,8	641
35501641	41 x 16	0,26	25,1	590,4	993

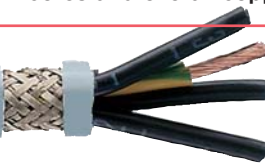
item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
35501650	50 x 16	0,26	27,3	720,0	1174
35501661	61 x 16	0,26	29,0	878,4	1390
35501403	3 x 14	0,26	9,3	72,0	143
35501404	4 x 14	0,26	10,0	96,0	173
35501405	5 x 14	0,26	11,0	120,0	209
35501407	7 x 14	0,26	11,9	168,0	265
35501409	9 x 14	0,26	15,4	216,0	373
35501412	12 x 14	0,26	16,1	288,0	446
35501418	18 x 14	0,26	18,8	432,0	633
35501425	25 x 14	0,26	23,5	600,0	902
35501203	3 x 12	0,31	10,5	115,2	199
35501204	4 x 12	0,31	11,4	153,6	244
35501205	5 x 12	0,31	12,5	192,0	296
35501207	7 x 12	0,31	14,4	268,8	404
35501003	3 x 10	0,31	12,4	172,8	285
35501004	4 x 10	0,31	14,3	230,4	377
35501005	5 x 10	0,31	15,6	288,0	453
35501007	7 x 10	0,31	17,0	403,2	584
35500804	4 x 8	0,41	18,1	337,9	586
35500805	5 x 8	0,41	19,9	422,4	709
35500604	4 x 6	0,41	22,8	541,4	919
35500605	5 x 6	0,41	25,1	676,8	1110
35500404	4 x 4	0,41	27,4	844,8	1386
35500405	5 x 4	0,41	30,3	1056,0	1684
35500204	4 x 2	0,41	31,8	1344,0	1976
35500205	5 x 2	0,41	35,2	1680,0	2398

Other dimensions and colours are possible on request.



## CC 600 MTW CY Type MTW PVC control cable and Machine-Tool Cable with numbered cores and overall copper screen

6 90°C Oil 60°C 600V CSA AWM I/II A/B 90°C 1000V FT1 FT2 CE



Marking for CC 600 MTW CY 35601404:

SAB BRÖCKSKES · D-VIERSEN · 4 x 25,0 mm<sup>2</sup> 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

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228 classe 5 and UL standard 758 Tabelle 5.1 + UL 1581 Tabelle 20.1
<b>Insulation:</b>	special formulated PVC/Nylon
<b>Colour code:</b>	black cores with consecutive numbers green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	non-woven tapes
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	special oil resistant PVC
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- UL recognized, CSA approved and (UL) listed
- Flexible cable for cable tray use
- oil resistant
- NFPA 79 for industrial machinery

### Technical data:

<b>Voltage:</b>	<b>UL-AWM / (UL)</b> 600 V	<b>CSA</b> 1000 V
<b>Testing voltage:</b>	core/core 4000 V core/screen 2000 V	
<b>Min. bending radius</b>		
fixed laying:	5 x d	
flexible application:	10 x d	
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>(UL) / CSA</b> -25/+90 °C	
storage ambient:	-40/+90°C	
<b>Fire performance:</b>	CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1, Oil 60 °C acc. to UL 758, Fuel Oil acc. to CSA-C 22.2 No. 210-05	
<b>Impact and Crushing test:</b>	acc. to UL 1277	
<b>Machinery Area:</b>	yes	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
35601803	3 x 18	0,21	8,5	50,3	97
35601804	4 x 18	0,21	9,2	62,2	116
35601805	5 x 18	0,21	9,9	74,3	142
35601807	7 x 18	0,21	10,6	96,4	167
35601809	9 x 18	0,21	13,0	146,0	244
35601812	12 x 18	0,21	14,3	175,1	293
35601816	16 x 18	0,21	15,9	251,0	397
35601818	18 x 18	0,21	16,6	270,9	431
35601819	19 x 18	0,21	17,4	292,4	460
35601825	25 x 18	0,21	19,4	364,0	560
35601827	27 x 18	0,21	19,4	383,2	586
35601837	37 x 18	0,21	22,6	494,2	802
35601850	50 x 18	0,21	26,0	650,0	1029
35601603	3 x 16	0,26	9,2	67,0	117
35601604	4 x 16	0,26	9,9	83,9	140
35601605	5 x 16	0,26	10,5	101,2	178
35601607	7 x 16	0,26	11,7	154,8	222
35601608	8 x 16	0,26	14,1	175,0	300
35601609	9 x 16	0,26	15,1	215,5	347
35601612	12 x 16	0,26	15,9	270,2	401
35601616	16 x 16	0,26	17,3	340,3	495
35601618	18 x 16	0,26	18,1	370,1	539
35601619	19 x 16	0,26	18,1	384,5	553
35601625	25 x 16	0,26	22,4	498,6	766
35601627	27 x 16	0,26	22,4	527,4	802
35601641	41 x 16	0,26	26,3	761,2	1125

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
35601650	50 x 16	0,26	28,5	896,4	1309
35601661	61 x 16	0,26	30,2	1075,7	1540
35601403	3 x 14	0,26	10,1	101,0	169
35601404	4 x 14	0,26	11,0	143,6	200
35601405	5 x 14	0,26	12,0	174,2	236
35601407	7 x 14	0,26	12,9	227,5	295
35601409	9 x 14	0,26	16,6	314,1	451
35601412	12 x 14	0,26	17,4	398,0	532
35601418	18 x 14	0,26	20,1	557,1	731
35601425	25 x 14	0,26	24,8	767,1	1031
35601203	3 x 12	0,31	11,5	163,1	239
35601204	4 x 12	0,31	12,5	208,1	289
35601205	5 x 12	0,31	14,3	251,9	367
35601207	7 x 12	0,31	15,6	365,9	481
35601003	3 x 10	0,31	14,1	232,6	356
35601004	4 x 10	0,31	15,5	327,4	453
35601005	5 x 10	0,31	16,8	386,4	530
35601007	7 x 10	0,31	18,2	514,3	670
35600804	4 x 8	0,41	19,3	461,8	682
35600805	5 x 8	0,41	22,2	560,6	870
35600604	4 x 6	0,41	24,0	683,1	1030
35600605	5 x 6	0,41	25,9	846,6	1237
35600404	4 x 4	0,41	28,6	1021,4	1521
35600405	5 x 4	0,41	31,5	1258,3	1838
35600204	4 x 2	0,41	33,0	1552,1	2134
35600205	5 x 2	0,41	36,4	1914,1	2574

Other dimensions and colours are possible on request.



## CC 600 World PVC control cable with numbered cores



Marking for CC 600 World 02511805:  
 SAB BRÖCKSKES · D-VIERSEN · <VDE> <HAR> H05VV5-F 02511805 1860,5 mm<sup>2</sup> 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

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	PVC, TM5 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

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

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	4 x d	
<i>flexible application:</i>	6 x d	
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA:</b>
<i>fixed laying:</i>	-40/+70 °C	up to +90 °C
<i>flexible application:</i>	+5/+70 °C	up to +90 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1	
<b>Chem. resistance:</b>	see page N/9	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

### possible lengths:

item no.	no. of cores x cross section n x mm <sup>2</sup>	AWG x cross section	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	possible lengths:				
						coils: 250 ft/ 75 m	500 ft/ 150 m	drums: 500 ft/ 150 m	1000 ft/ 300 m	2000 ft/ 600 m
02510305	3 x 0,50	20	6,5	15,4	60	X	X		X	X
02510405	4 x 0,50	20	7,2	20,5	74	X	X		X	X
02510505	5 x 0,50	20	7,9	25,6	91	X	X		X	X
02510705	7 x 0,50	20	9,5	35,9	129	X	X		X	X
02511205	12 x 0,50	20	11,5	61,5	182	X		X	X	X
02511805	18 x 0,50	20	13,8	92,3	269	X		X	X	X
02510307	3 x 0,75	19	7,1	21,6	73	X	X		X	X
02510407	4 x 0,75	19	7,9	28,8	90	X	X		X	X
02510507	5 x 0,75	19	8,0	36,0	97	X	X		X	X
02510707	7 x 0,75	19	10,4	50,4	157	X	X		X	X
02511207	12 x 0,75	19	12,9	86,4	229	X		X	X	X
02511807	18 x 0,75	19	15,3	129,6	333	X		X	X	X
02510310	3 x 1,00	18	7,4	28,8	83	X	X		X	X
02510410	4 x 1,00	18	8,1	38,4	101	X	X		X	X
02510510	5 x 1,00	18	9,1	48,0	128	X	X		X	X
02510710	7 x 1,00	18	10,8	67,2	179	X	X		X	X
02511210	12 x 1,00	18	13,3	115,2	261	X		X	X	X
02511810	18 x 1,00	18	15,9	172,8	384	X		X	X	X
02510315	3 x 1,50	16	8,4	43,2	112	X	X		X	X
02510415	4 x 1,50	16	9,5	57,6	141	X	X		X	X
02510515	5 x 1,50	16	10,6	72,0	177	X	X		X	X
02510715	7 x 1,50	16	12,8	100,8	252	X		X	X	X
02511215	12 x 1,50	16	15,7	172,8	368	X		X	X	X
02511815	18 x 1,50	16	18,8	259,2	541	X		X	X	X
02510325	3 x 2,50	14	10,1	72,0	166	X	X		X	X
02510425	4 x 2,50	14	11,3	96,0	209	X		X	X	X
02510525	5 x 2,50	14	12,5	120,0	258	X		X	X	X
02510725	7 x 2,50	14	15,0	168,0	367	X		X	X	X
02511225	12 x 2,50	14	18,6	288,0	546	X		X	X	X
02511825	18 x 2,50	14	22,6	432,0	821	X		X	X	X

Other dimensions and colours are possible on request.



## CC 600 M CY PVC control cable with numbered cores, inner sheath and overall copper screen



Marking for CC 600 M CY 02561805:

SAB BRÖCKSKES · D-VIERSEN · <VDE> <HAR> H05VVC4V5-K 02561805 18G0,5mm<sup>2</sup> CC 600 M 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

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Inner sheath:</b>	PVC, TM2 acc. to DIN VDE 0281 part 1, + HD 21.1
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	PVC, TM5 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Sheath colour:</b>	grey (RAL 7000)

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2; core/screen 1000 V	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA:</b>
<i>fixed laying:</i>	-40/+70 °C	up to +90 °C
<i>flexible application:</i>	+5/+70 °C	up to +90 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1	
<b>Chem. resistance:</b>	see page N/9	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

### Outstanding features:

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

### possible lengths:

item no.	no. of cores x cross section n x mm <sup>2</sup>	AWG x cross section	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	coils:		drums:		
						250 ft/ 75 m	500 ft/ 150 m	500 ft/ 150 m	1000 ft/ 300 m	2000 ft/ 600 m
02560305	3 x 0,50	20	9,1	48,4	121	X			X	X
02560405	4 x 0,50	20	9,9	66,9	149	X	X		X	X
02560505	5 x 0,50	20	10,6	71,3	168	X	X		X	X
02560705	7 x 0,50	20	12,2	83,8	215	X		X	X	X
02561205	12 x 0,50	20	14,4	120,7	291	X		X	X	X
02561805	18 x 0,50	20	16,9	197,3	425	X		X	X	X
02560307	3 x 0,75	19	9,9	68,1	150	X	X		X	X
02560407	4 x 0,75	19	10,6	74,7	169	X	X		X	X
02560507	5 x 0,75	19	11,4	83,0	195	X		X	X	X
02560707	7 x 0,75	19	13,2	108,4	259	X		X	X	X
02561207	12 x 0,75	19	16,0	173,3	371			X	X	X
02561807	18 x 0,75	19	18,4	238,7	505			X	X	X
02560310	3 x 1,00	18	10,1	75,7	160	X	X		X	X
02560410	4 x 1,00	18	10,5	81,8	172	X	X		X	X
02560510	5 x 1,00	18	11,7	95,5	211	X		X	X	X
02560710	7 x 1,00	18	13,6	125,6	283	X		X	X	X
02561210	12 x 1,00	18	16,5	219,9	422			X	X	X
02561810	18 x 1,00	18	19,1	283,6	564			X	X	X
02560315	3 x 1,50	16	11,1	89,7	193	X	X		X	X
02560415	4 x 1,50	16	12,2	105,8	229	X	X		X	X
02560515	5 x 1,50	16	13,3	130,1	277	X		X	X	X
02560715	7 x 1,50	16	15,9	187,4	392	X		X	X	X
02561215	12 x 1,50	16	18,9	272,3	535			X	X	X
02561815	18 x 1,50	16	22,5	398,2	783			X	X	X
02560325	3 x 2,50	14	12,9	129,5	266	X	X		X	X
02560425	4 x 2,50	14	13,8	154,4	306	X	X		X	X
02560525	5 x 2,50	14	15,5	205,9	393	X		X	X	X
02560725	7 x 2,50	14	18,1	276,3	535	X		X	X	X
02561225	12 x 2,50	14	22,3	410,6	773	X		X	X	X
02561825	18 x 2,50	14	25,8	582,0	1066	X		X	X	X

Other dimensions and colours are possible on request.



## CC 600 P PUR control cable with numbered black cores and inner sheath



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

Marking for CC 600 P 02610510:  
SAB BRÖCKSKES · D-VIERSEN · 02610510 5 x 1,0 mm<sup>2</sup> 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

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Inner sheath:</b>	from 4,0 mm <sup>2</sup> : PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Sheath material:</b>	PU acc. to UL 758
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

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

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	4 x d	
<i>flexible application:</i>	6 x d	
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA</b>
<i>fixed laying:</i>	-40/+70 °C	up to +80 °C
<i>flexible application:</i>	+5/+70 °C	up to +80 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - oilrating 60°C acc. to UL 1581	
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02610205	2 x 0,50	0,21	6,2	10,3	48
02610305	3 x 0,50	0,21	6,4	15,4	56
02610405	4 x 0,50	0,21	6,8	20,5	66
02610505	5 x 0,50	0,21	7,4	25,6	79
02610705	7 x 0,50	0,21	7,9	35,9	96
02611205	12 x 0,50	0,21	10,1	61,5	144
02611805	18 x 0,50	0,21	11,6	92,3	203
02612505	25 x 0,50	0,21	13,7	128,2	265
02613005	30 x 0,50	0,21	14,1	153,8	306
02613405	34 x 0,50	0,21	15,2	174,3	347
02614205	42 x 0,50	0,21	16,6	215,3	432
02615005	50 x 0,50	0,21	18,0	256,4	492
02610207	2 x 0,75	0,21	6,7	14,4	58
02610307	3 x 0,75	0,21	6,9	21,6	67
02610407	4 x 0,75	0,21	7,4	28,8	80
02610507	5 x 0,75	0,21	8,0	36,0	96
02610707	7 x 0,75	0,21	9,3	50,4	130
02611207	12 x 0,75	0,21	11,1	86,4	178
02611807	18 x 0,75	0,21	12,9	129,6	253
02612507	25 x 0,75	0,21	15,2	180,0	330
02613007	30 x 0,75	0,21	16,0	216,0	393
02613407	34 x 0,75	0,21	17,3	244,8	446
02614207	42 x 0,75	0,21	18,5	302,4	542
02615007	50 x 0,75	0,21	20,1	360,0	621
02610210	2 x 1,00	0,21	6,9	19,2	64
02610310	3 x 1,00	0,21	7,1	28,8	76
02610410	4 x 1,00	0,21	7,7	38,4	91
02610510	5 x 1,00	0,21	8,3	48,0	110
02610710	7 x 1,00	0,21	9,6	67,2	148
02611210	12 x 1,00	0,21	11,5	115,2	207
02611810	18 x 1,00	0,21	13,4	172,8	297

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02612510	25 x 1,00	0,21	16,0	240,0	397
02613010	30 x 1,00	0,21	16,7	288,0	465
02613410	34 x 1,00	0,21	18,0	326,4	528
02614210	42 x 1,00	0,21	19,2	403,2	642
02615010	50 x 1,00	0,21	22,5	480,0	806
02610215	2 x 1,50	0,26	7,5	28,8	79
02610315	3 x 1,50	0,26	7,8	43,2	96
02610415	4 x 1,50	0,26	8,4	57,6	116
02610515	5 x 1,50	0,26	9,1	72,0	140
02610715	7 x 1,50	0,26	10,6	100,8	190
02611215	12 x 1,50	0,26	12,8	172,8	271
02611815	18 x 1,50	0,26	14,9	259,2	392
02612515	25 x 1,50	0,26	18,0	360,0	536
02613015	30 x 1,50	0,26	18,6	432,0	625
02613415	34 x 1,50	0,26	20,1	489,6	786
02614215	42 x 1,50	0,26	22,9	604,8	936
02615015	50 x 1,50	0,26	25,0	720,0	1080
02610225	2 x 2,50	0,26	8,7	48,0	112
02610325	3 x 2,50	0,26	9,1	72,0	140
02610425	4 x 2,50	0,26	9,8	96,0	170
02610525	5 x 2,50	0,26	10,7	120,0	208
02610725	7 x 2,50	0,26	12,6	168,0	288
02611225	12 x 2,50	0,26	15,3	288,0	412
02611825	18 x 2,50	0,26	18,2	432,0	613
02612525	25 x 2,50	0,26	23,2	600,0	885
02610340	3 x 4,00	0,31	11,9	115,2	233
02610440	4 x 4,00	0,31	13,0	153,6	288
02610540	5 x 4,00	0,31	13,9	192,0	342
02610460	4 x 6,00	0,31	14,7	230,4	393
02610560	5 x 6,00	0,31	16,1	288,0	482
02610461	4 x 10,0	0,41	18,5	384,0	644

Other dimensions and colours are possible on request.



## CC 600 P blue PUR control cable with numbered blue cores and inner sheath



Marking for CC 600 P blue 02630510:  
 SAB BRÖCKSKES · D-VIERSEN · 02630510 5 x 1,0 mm<sup>2</sup> CC 600 P blue 18 AWG/5c 02631805  
 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	blue cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Inner sheath:</b>	from 4,0 mm <sup>2</sup> : PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Sheath material:</b>	PU acc. to UL 758
<b>Sheath colour:</b>	grey (RAL 7000)

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	4 x d	
<i>flexible application:</i>	6 x d	
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA</b>
<i>fixed laying:</i>	-40/+70 °C	up to +80 °C
<i>flexible application:</i>	+5/+70 °C	up to +80 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - oilrating 60°C acc. to UL 1581	
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

### Outstanding features:

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

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02630205	2 x 0,50	0,21	6,2	10,3	48
02630305	3 x 0,50	0,21	6,4	15,4	56
02630405	4 x 0,50	0,21	6,8	20,5	66
02630505	5 x 0,50	0,21	7,4	25,6	79
02630705	7 x 0,50	0,21	7,9	35,9	96
02631205	12 x 0,50	0,21	10,1	61,5	144
02631805	18 x 0,50	0,21	11,6	92,3	203
02632505	25 x 0,50	0,21	13,7	128,2	265
02633005	30 x 0,50	0,21	14,1	153,8	306
02633405	34 x 0,50	0,21	15,2	174,3	347
02634205	42 x 0,50	0,21	16,6	215,3	432
02635005	50 x 0,50	0,21	18,0	256,4	492
02630207	2 x 0,75	0,21	6,7	14,4	58
02630307	3 x 0,75	0,21	6,9	21,6	67
02630407	4 x 0,75	0,21	7,4	28,8	80
02630507	5 x 0,75	0,21	8,0	36,0	96
02630707	7 x 0,75	0,21	9,3	50,4	130
02631207	12 x 0,75	0,21	11,1	86,4	178
02631807	18 x 0,75	0,21	12,9	129,6	253
02632507	25 x 0,75	0,21	15,2	180,0	330
02633007	30 x 0,75	0,21	16,0	216,0	393
02633407	34 x 0,75	0,21	17,3	244,8	446
02634207	42 x 0,75	0,21	18,5	302,4	542
02635007	50 x 0,75	0,21	20,1	360,0	621
02630210	2 x 1,00	0,21	6,9	19,2	64
02630310	3 x 1,00	0,21	7,1	28,8	76
02630410	4 x 1,00	0,21	7,7	38,4	91
02630510	5 x 1,00	0,21	8,3	48,0	110
02630710	7 x 1,00	0,21	9,6	67,2	148
02631210	12 x 1,00	0,21	11,5	115,2	207
02631810	18 x 1,00	0,21	13,4	172,8	297

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02632510	25 x 1,00	0,21	16,0	240,0	397
02633010	30 x 1,00	0,21	16,7	288,0	465
02633410	34 x 1,00	0,21	18,0	326,4	528
02634210	42 x 1,00	0,21	19,2	403,2	642
02635010	50 x 1,00	0,21	22,5	480,0	806
02630215	2 x 1,50	0,26	7,5	28,8	79
02630315	3 x 1,50	0,26	7,8	43,2	96
02630415	4 x 1,50	0,26	8,4	57,6	116
02630515	5 x 1,50	0,26	9,1	72,0	140
02630715	7 x 1,50	0,26	10,6	100,8	190
02631215	12 x 1,50	0,26	12,8	172,8	271
02631815	18 x 1,50	0,26	14,9	259,2	392
02632515	25 x 1,50	0,26	18,0	360,0	536
02633015	30 x 1,50	0,26	18,6	432,0	625
02633415	34 x 1,50	0,26	20,1	489,6	786
02634215	42 x 1,50	0,26	22,9	604,8	936
02635015	50 x 1,50	0,26	25,0	720,0	1080
02630225	2 x 2,50	0,26	8,7	48,0	112
02630325	3 x 2,50	0,26	9,1	72,0	140
02630425	4 x 2,50	0,26	9,8	96,0	170
02630525	5 x 2,50	0,26	10,7	120,0	208
02630725	7 x 2,50	0,26	12,6	168,0	288
02631225	12 x 2,50	0,26	15,3	288,0	412
02631825	18 x 2,50	0,26	18,2	432,0	613
02632525	25 x 2,50	0,26	23,2	600,0	885
02630340	3 x 4,00	0,31	11,9	115,2	233
02630440	4 x 4,00	0,31	13,0	153,6	288
02630540	5 x 4,00	0,31	13,9	192,0	342
02630460	4 x 6,00	0,31	14,7	230,4	393
02630560	5 x 6,00	0,31	16,1	288,0	482
02630461	4 x 10,0	0,41	18,5	384,0	644

Other dimensions and colours are possible on request.





## CC 600 P red PUR control cable with numbered red cores and inner sheath



Marking for CC 600 P red 02640510:  
 SAB BRÖCKSKES · D-VIERSEN · 02640510 5 x 1,0 mm<sup>2</sup> CC 600 P red 18 AWG/5c 02641805  
 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	red cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Inner sheath:</b>	from 4,0 mm <sup>2</sup> : PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Sheath material:</b>	PU acc. to UL 758
<b>Sheath colour:</b>	grey (RAL 7000)

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	4 x d	
<i>flexible application:</i>	6 x d	
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA</b>
<i>fixed laying:</i>	-40/+70 °C	up to +80 °C
<i>flexible application:</i>	+5/+70 °C	up to +80 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - oilrating 60°C acc. to UL 1581	
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

### Outstanding features:

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

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02640205	2 x 0,50	0,21	6,2	10,3	48
02640305	3 x 0,50	0,21	6,4	15,4	56
02640405	4 x 0,50	0,21	6,8	20,5	66
02640505	5 x 0,50	0,21	7,4	25,6	79
02640705	7 x 0,50	0,21	7,9	35,9	96
02641205	12 x 0,50	0,21	10,1	61,5	144
02641805	18 x 0,50	0,21	11,6	92,3	203
02642505	25 x 0,50	0,21	13,7	128,2	265
02643005	30 x 0,50	0,21	14,1	153,8	306
02643405	34 x 0,50	0,21	15,2	174,3	347
02644205	42 x 0,50	0,21	16,6	215,3	432
02645005	50 x 0,50	0,21	18,0	256,4	492
02640207	2 x 0,75	0,21	6,7	14,4	58
02640307	3 x 0,75	0,21	6,9	21,6	67
02640407	4 x 0,75	0,21	7,4	28,8	80
02640507	5 x 0,75	0,21	8,0	36,0	96
02640707	7 x 0,75	0,21	9,3	50,4	130
02641207	12 x 0,75	0,21	11,1	86,4	178
02641807	18 x 0,75	0,21	12,9	129,6	253
02642507	25 x 0,75	0,21	15,2	180,0	330
02643007	30 x 0,75	0,21	16,0	216,0	393
02643407	34 x 0,75	0,21	17,3	244,8	446
02644207	42 x 0,75	0,21	18,5	302,4	542
02645007	50 x 0,75	0,21	20,1	360,0	621
02640210	2 x 1,00	0,21	6,9	19,2	64
02640310	3 x 1,00	0,21	7,1	28,8	76
02640410	4 x 1,00	0,21	7,7	38,4	91
02640510	5 x 1,00	0,21	8,3	48,0	110
02640710	7 x 1,00	0,21	9,6	67,2	148
02641210	12 x 1,00	0,21	11,5	115,2	207
02641810	18 x 1,00	0,21	13,4	172,8	297

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02642510	25 x 1,00	0,21	16,0	240,0	397
02643010	30 x 1,00	0,21	16,7	288,0	465
02643410	34 x 1,00	0,21	18,0	326,4	528
02644210	42 x 1,00	0,21	19,2	403,2	642
02645010	50 x 1,00	0,21	22,5	480,0	806
02640215	2 x 1,50	0,26	7,5	28,8	79
02640315	3 x 1,50	0,26	7,8	43,2	96
02640415	4 x 1,50	0,26	8,4	57,6	116
02640515	5 x 1,50	0,26	9,1	72,0	140
02640715	7 x 1,50	0,26	10,6	100,8	190
02641215	12 x 1,50	0,26	12,8	172,8	271
02641815	18 x 1,50	0,26	14,9	259,2	392
02642515	25 x 1,50	0,26	18,0	360,0	536
02643015	30 x 1,50	0,26	18,6	432,0	625
02643415	34 x 1,50	0,26	20,1	489,6	786
02644215	42 x 1,50	0,26	22,9	604,8	936
02645015	50 x 1,50	0,26	25,0	720,0	1080
02640225	2 x 2,50	0,26	8,7	48,0	112
02640325	3 x 2,50	0,26	9,1	72,0	140
02640425	4 x 2,50	0,26	9,8	96,0	170
02640525	5 x 2,50	0,26	10,7	120,0	208
02640725	7 x 2,50	0,26	12,6	168,0	288
02641225	12 x 2,50	0,26	15,3	288,0	412
02641825	18 x 2,50	0,26	18,2	432,0	613
02642525	25 x 2,50	0,26	23,2	600,0	885
02640340	3 x 4,00	0,31	11,9	115,2	233
02640440	4 x 4,00	0,31	13,0	153,6	288
02640540	5 x 4,00	0,31	13,9	192,0	342
02640460	4 x 6,00	0,31	14,7	230,4	393
02640560	5 x 6,00	0,31	16,1	288,0	482
02640461	4 x 10,0	0,41	18,5	384,0	644

Other dimensions and colours are possible on request.



## CC 600 CP PUR control cable with numbered cores and overall copper screen



Marking for CC 600 CP 02812510:

SAB BRÖCKSKES · D-VIERSEN · 02812510 25 x 1,0 mm<sup>2</sup> CC 600 CP 18 AWG/25c 02811825

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

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Wrapping:</b>	fine cotton binding
<b>Sheath material:</b>	PU acc. to UL 758
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

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

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 core/screen 1000 V	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA:</b>
<i>fixed laying:</i>	-40/+70 °C	up to +80 °C
<i>flexible application:</i>	+5/+70 °C	up to +80 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - oilrating 60°C acc. to UL 1581	
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02810205	2 x 0,50	0,21	6,7	26,1	62
02810305	3 x 0,50	0,21	7,0	31,3	70
02810405	4 x 0,50	0,21	7,4	38,1	80
02810505	5 x 0,50	0,21	8,0	45,2	95
02810705	7 x 0,50	0,21	8,5	57,5	112
02811205	12 x 0,50	0,21	10,6	90,6	167
02811805	18 x 0,50	0,21	12,4	146,4	245
02812505	25 x 0,50	0,21	14,4	194,3	314
02810207	2 x 0,75	0,21	7,2	31,9	72
02810307	3 x 0,75	0,21	7,5	39,2	82
02810407	4 x 0,75	0,21	8,0	48,4	95
02810507	5 x 0,75	0,21	8,6	57,7	112
02810707	7 x 0,75	0,21	9,9	76,6	148
02811207	12 x 0,75	0,21	11,8	140,2	219
02811807	18 x 0,75	0,21	13,5	189,3	297
02812507	25 x 0,75	0,21	16,4	277,8	414
02810210	2 x 1,00	0,21	7,4	36,8	79
02810310	3 x 1,00	0,21	7,7	48,3	91
02810410	4 x 1,00	0,21	8,3	59,9	107
02810510	5 x 1,00	0,21	8,9	71,6	127
02810710	7 x 1,00	0,21	10,2	96,1	168
02811210	12 x 1,00	0,21	12,2	169,2	248
02811810	18 x 1,00	0,21	14,1	238,8	347
02812510	25 x 1,00	0,21	17,0	349,4	482

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02810315	3 x 1,50	0,26	8,4	64,8	112
02810415	4 x 1,50	0,26	9,0	81,3	133
02810515	5 x 1,50	0,26	9,7	98,2	159
02810715	7 x 1,50	0,26	11,4	148,4	225
02811215	12 x 1,50	0,26	13,5	232,4	316
02811815	18 x 1,50	0,26	16,1	356,7	475
02812515	25 x 1,50	0,26	18,9	483,1	627
02810325	3 x 2,50	0,26	9,7	98,2	158
02810425	4 x 2,50	0,26	10,4	125,0	189
02810525	5 x 2,50	0,26	11,5	167,6	240
02810725	7 x 2,50	0,26	13,4	227,6	326
02811225	12 x 2,50	0,26	16,5	385,9	496
02811825	18 x 2,50	0,26	19,1	555,4	704
02812525	25 x 2,50	0,26	24,1	740,9	992
02810340	3 x 4,00	0,31	11,3	162,7	232
02810440	4 x 4,00	0,31	12,2	207,6	281
02810540	5 x 4,00	0,31	13,3	251,5	340
02810360	3 x 6,00	0,31	13,1	227,2	323
02810460	4 x 6,00	0,31	14,2	296,2	395
02810560	5 x 6,00	0,31	15,7	385,1	498
02810461	4 x 10,0	0,41	19,0	494,9	692

Other dimensions and colours are possible on request.



## CC 640 P PUR-control cable with coloured cores, halogen-free and oil resistant



Style 21127 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2

Marking for CC 640 P 52680415:  
 SAB BRÖCKSKES · D-VIERSEN · 52680415 4 x 1,5 mm<sup>2</sup> 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

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	US 1, see page N/11
<b>Stranding:</b>	in layers with a non-woven tape over the outer layer
<b>Sheath material:</b>	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Sheath colour:</b>	yellow (RAL 1021)

### Outstanding features:

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

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	4 x d	
<i>flexible application:</i>	6 x d	
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL</b>
<i>fixed laying:</i>	-40/+90 °C	up to +75°C
<i>flexible application:</i>	-30/+90 °C	up to +75°C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1	
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - PUR TMPU acc. to DIN VDE 0282 part 10 + HD 22.10	
<b>Flexibilität:</b>	very good	
<b>Weather resistance:</b>	very good	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
52680210	2 x 1,00	0,21	7,0	19,2	61
52680310	3 x 1,00	0,21	7,4	28,8	72
52680410	4 x 1,00	0,21	7,9	38,4	86
52680510	5 x 1,00	0,21	8,5	48,0	101
52680710	7 x 1,00	0,21	9,2	67,2	127
52681210	12 x 1,00	0,21	11,6	115,2	199
52680215	2 x 1,50	0,26	7,6	28,8	75
52680315	3 x 1,50	0,26	8,0	43,2	90
52680415	4 x 1,50	0,26	8,6	57,6	109
52680515	5 x 1,50	0,26	9,3	72,0	129
52680715	7 x 1,50	0,26	10,1	100,8	165
52681215	12 x 1,50	0,26	12,8	172,8	261

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
52680225	2 x 2,50	0,26	8,4	48,0	101
52680325	3 x 2,50	0,26	8,9	72,0	124
52680425	4 x 2,50	0,26	9,6	96,0	152
52680525	5 x 2,50	0,26	10,4	120,0	182
52680725	7 x 2,50	0,26	11,3	168,0	235
52680340	3 x 4,00	0,31	10,8	115,2	190
52680440	4 x 4,00	0,31	11,7	153,6	234
52680540	5 x 4,00	0,31	12,8	192,0	284
52680360	3 x 6,00	0,31	12,3	172,8	256
52680460	4 x 6,00	0,31	13,4	230,4	321
52680560	5 x 6,00	0,31	14,7	288,0	404

Other dimensions and colours are possible on request.



Sheath  
also possible  
in black  
or orange



## CC 640 CP PUR-control cable with coloured cores, halogen-free, oil resistant and overall copper screen



Marking for CC 640 CP 52840415:  
 SAB BRÖCKSKES · D-VIERSEN · 52840415 4 x 1,50 mm<sup>2</sup> 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

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	US 1, see page N/11
<b>Stranding:</b>	in layers with a non-woven tape over the outer layer
<b>Screen:</b>	tinned copper braiding
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Sheath colour:</b>	yellow (RAL 1021)

### Outstanding features:

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

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V	
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 core/screen 1000 V		
<b>Min. bending radius</b>			
fixed laying:	5 x d		
flexible application:	10 x d		
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg		
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL</b>	<b>CSA</b>
fixed laying:	-40/+90 °C	up to +75°C	up to +80°C
flexible application:	-30/+90 °C	up to +75°C	up to +80°C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1		
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2		
<b>Oil resistance:</b>	very good - PUR TMPU acc. to DIN VDE 0282 part 10 + HD 22.10		
<b>Flexibilität:</b>	very good		
<b>Weather resistance:</b>	very good		
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14		

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
52840210	2 x 1,00	0,21	8,0	34,1	83
52840310	3 x 1,00	0,21	8,3	45,0	95
52840410	4 x 1,00	0,21	8,8	55,9	110
52840510	5 x 1,00	0,21	9,5	67,0	128
52840710	7 x 1,00	0,21	10,1	87,8	156
52841210	12 x 1,00	0,21	12,8	154,5	249
52840215	2 x 1,50	0,26	8,6	45,1	100
52840315	3 x 1,50	0,26	9,0	60,8	116
52840415	4 x 1,50	0,26	9,6	76,6	136
52840515	5 x 1,50	0,26	10,3	92,7	158
52840715	7 x 1,50	0,26	11,1	123,4	197
52841215	12 x 1,50	0,26	14,0	215,8	315

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
52840225	2 x 2,50	0,26	9,9	68,6	139
52840325	3 x 2,50	0,26	10,4	92,7	163
52840425	4 x 2,50	0,26	11,1	118,6	194
52840525	5 x 2,50	0,26	12,2	159,0	244
52840725	7 x 2,50	0,26	13,2	207,5	302
52840340	3 x 4,00	0,31	11,8	150,1	233
52840440	4 x 4,00	0,31	12,8	192,9	282
52840540	5 x 4,00	0,31	13,9	234,9	337
52840360	3 x 6,00	0,31	13,5	215,6	320
52840460	4 x 6,00	0,31	14,6	277,6	389
52840560	5 x 6,00	0,31	16,4	356,1	493

Other dimensions and colours are possible on request.



Sheath  
also possible  
in black  
or orange

## NYMH11YÖ-J PUR connection cable with coloured cores and PVC-core insulation



Marking for NYMH11YÖ-J 02680415:  
SAB BRÖCKSKES · D-VIERSEN · NYMH11YÖ-J 4 x 1,5 mm² CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	coloured acc. to HD 308 (VDE 0293 part 308); green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Sheath colour:</b>	orange (RAL 2003)

### Outstanding features:

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

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	+5/+70 °C
<b>Oil resistance:</b>	very good - TPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02680207	2 x 0,75	0,21	6,9	14,4	54
02680307	3 x 0,75	0,21	7,2	21,6	65
02680407	4 x 0,75	0,21	7,8	28,8	79
02680507	5 x 0,75	0,21	8,8	36,0	102
02680210	2 x 1,00	0,21	7,1	19,2	60
02680310	3 x 1,00	0,21	7,4	28,8	74
02680410	4 x 1,00	0,21	8,2	38,4	93
02680510	5 x 1,00	0,21	9,0	48,0	114

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
02680215	2 x 1,50	0,26	8,1	28,8	81
02680315	3 x 1,50	0,26	8,6	43,2	102
02680415	4 x 1,50	0,26	9,5	57,6	126
02680515	5 x 1,50	0,26	10,8	72,0	164
02680225	2 x 2,50	0,26	9,6	48,0	121
02680325	3 x 2,50	0,26	10,4	72,0	154
02680425	4 x 2,50	0,26	11,3	96,0	190
02680525	5 x 2,50	0,26	12,6	120,0	239

Other dimensions and colours are possible on request.



## CRX 600 TPE control cable with numbered cores, oil resistant



Marking for CRX 600 32040315:

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

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	TPE
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	TPE
<b>Sheath color:</b>	gray (RAL 7000)

### Technical data:

<b>Voltage:</b>	UL: 600 V	cUL: 1000 V
<b>Nominal voltage:</b>	DIN VDE: Uo/U 300/500 V	
<b>Testing voltage U:</b>	conductor/conductor 2000 V	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	4 x d	
<i>flexible application:</i>	6 x d	
<b>Temperature range</b>	UL-AWM + cUL-AWM: up to +105 °C	
<i>fixed laying:</i>	DIN VDE: -30/+90 °C	
<i>flexible application:</i>	-20/+90 °C	
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, cUL FT1 + FT2	
<b>Oil resistance:</b>	Oil 60 °C	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

### Outstanding features:

- UL and cUL recognized
- all-purpose flexible
- oil resistant

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
32040205	2 x 0,50	0,21	5,3	10,3	35
32040305	3 x 0,50	0,21	5,6	15,4	42
32040405	4 x 0,50	0,21	6,0	20,5	50
32040505	5 x 0,50	0,21	6,5	25,6	60
32040705	7 x 0,50	0,21	7,1	35,9	76
32041205	12 x 0,50	0,21	9,4	61,5	124
32041505	15 x 0,50	0,21	10,6	76,9	157
32042505	25 x 0,50	0,21	13,6	128,2	215
32040210	2 x 1,00	0,21	6,0	19,2	49
32040310	3 x 1,00	0,21	6,3	28,8	59
32040410	4 x 1,00	0,21	6,8	38,4	72
32040510	5 x 1,00	0,21	7,6	48,0	89
32040710	7 x 1,00	0,21	8,2	67,2	112
32040910	9 x 1,00	0,21	10,5	86,4	160
32041210	12 x 1,00	0,21	11,1	115,2	188
32041410	14 x 1,00	0,21	12,1	134,4	223
32041510	15 x 1,00	0,21	12,5	144,0	236
32041810	18 x 1,00	0,21	13,3	172,8	278
32042510	25 x 1,00	0,21	16,2	240,0	381
32045010	50 x 1,00	0,21	21,6	480,0	721
32040215	2 x 1,50	0,26	6,6	28,8	67
32040315	3 x 1,50	0,26	6,9	43,2	81
32040415	4 x 1,50	0,26	7,7	57,6	101
32040515	5 x 1,50	0,26	8,4	72,0	116
32040715	7 x 1,50	0,26	9,3	100,8	152
32041215	12 x 1,50	0,26	12,5	172,8	253

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
32041515	15 x 1,50	0,26	14,1	216,0	317
32041615	16 x 1,50	0,26	14,1	230,4	331
32041815	18 x 1,50	0,26	15,0	259,2	374
32042515	25 x 1,50	0,26	18,2	360,0	517
32043015	30 x 1,50	0,26	19,0	432,0	609
32045015	50 x 1,50	0,26	24,5	720,0	995
32040325	3 x 2,50	0,26	8,3	72,0	115
32040425	4 x 2,50	0,26	8,5	69,0	144
32040525	5 x 2,50	0,26	10,1	120,0	178
32040725	7 x 2,50	0,26	11,2	168,0	234
32041225	12 x 2,50	0,26	15,3	288,0	396
32041825	18 x 2,50	0,26	18,2	432,0	582
32042525	25 x 2,50	0,26	22,3	600,0	803
32040340	3 x 4,00	0,31	9,7	115,2	171
32040440	4 x 4,00	0,31	10,8	153,6	217
32040540	5 x 4,00	0,31	12,1	192,0	270
32040740	7 x 4,00	0,31	13,4	268,8	336
32040360	3 x 6,00	0,31	11,4	172,8	247
32040460	4 x 6,00	0,31	12,7	230,4	314
32040560	5 x 6,00	0,31	14,2	288,0	389
32040461	4 x 10,0	0,41	19,3	384,0	604
32040462	4 x 16,0	0,41	21,2	614,4	857
32040463	4 x 25,0	0,41	26,5	960,0	1384
32040464	4 x 35,0	0,41	30,2	1344,0	1892
32040465	4 x 50,0	0,41	35,0	1920,0	2584

Other dimensions and colours are possible on request.



## Extra chemical resistance



## CRX 600 C TPE control cable with numbered cores, oil resistant and tinned copper screen



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

Marking for CRX 600 C 32140315:

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	TPE
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	fine cotton binding tape
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	TPE
<b>Sheath color:</b>	gray (RAL 7000)

### Outstanding features:

- UL and cUL recognized
- all-purpose flexible
- oil resistant

### Technical data:

<b>Voltage:</b>	UL: 600 V	cUL: 1000 V
<b>Nominal voltage:</b>	DIN VDE: U <sub>0</sub> /U 300/500 V	
<b>Testing voltage U:</b>	conductor/conductor 2000 V conductor/screen 1000 V	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	4 x d	
<i>flexible application:</i>	6 x d	
<b>Temperature range</b>	UL-AWM + cUL-AWM: up to +105 °C	
<i>fixed laying:</i>	DIN VDE: -30/+90 °C	
<i>flexible application:</i>	-20/+90 °C	
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, cUL FT1 + FT2	
<b>Oil resistance:</b>	Oil 60 °C	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14	

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
32140205	2 x 0,50	0,21	5,9	25,5	42
32140305	3 x 0,50	0,21	6,2	30,5	51
32140405	4 x 0,50	0,21	6,6	36,9	60
32140505	5 x 0,50	0,21	7,2	43,7	72
32140705	7 x 0,50	0,21	7,8	55,1	89
32141205	12 x 0,50	0,21	10,0	86,8	141
32141505	15 x 0,50	0,21	11,5	126,0	191
32140210	2 x 1,00	0,21	6,6	36,9	54
32140310	3 x 1,00	0,21	7,0	48,4	69
32140410	4 x 1,00	0,21	7,5	59,7	84
32140510	5 x 1,00	0,21	8,2	71,7	101
32140710	7 x 1,00	0,21	9,0	93,4	129
32140910	9 x 1,00	0,21	11,3	140,3	188
32141210	12 x 1,00	0,21	12,1	169,5	225
32141510	15 x 1,00	0,21	13,5	203,8	277
32141810	18 x 1,00	0,21	14,3	258,5	332
32142510	25 x 1,00	0,21	17,2	350,0	451
32145010	50 x 1,00	0,21	22,8	620,3	818
32140215	2 x 1,50	0,26	7,2	48,5	67
32140315	3 x 1,50	0,26	7,6	64,6	86
32140415	4 x 1,50	0,26	8,3	81,4	106
32140515	5 x 1,50	0,26	9,2	98,3	131
32140715	7 x 1,50	0,26	9,9	129,9	165
32141215	12 x 1,50	0,26	13,5	232,6	292

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
32141515	15 x 1,50	0,26	15,3	313,2	382
32141815	18 x 1,50	0,26	16,2	357,1	439
32142515	25 x 1,50	0,26	19,4	483,7	601
32145015	50 x 1,50	0,26	25,7	889,5	1109
32140325	3 x 2,50	0,26	9,1	98,2	126
32140425	4 x 2,50	0,26	9,8	125,1	156
32140525	5 x 2,50	0,26	11,1	167,8	205
32140725	7 x 2,50	0,26	12,2	222,4	266
32141225	12 x 2,50	0,26	16,5	386,3	458
32141825	18 x 2,50	0,26	19,4	555,7	660
32142525	25 x 2,50	0,26	23,5	741,3	894
32140340	3 x 4,00	0,31	10,7	162,8	191
32140440	4 x 4,00	0,31	11,8	207,7	244
32140540	5 x 4,00	0,31	12,9	251,6	295
32140740	7 x 4,00	0,31	14,4	354,6	399
32140360	3 x 6,00	0,31	12,4	227,3	265
32140460	4 x 6,00	0,31	13,7	290,3	337
32140560	5 x 6,00	0,31	15,4	385,3	438
32140461	4 x 10,0	0,41	20,5	509,1	670
32140462	4 x 16,0	0,41	22,4	753,9	906
32140463	4 x 25,0	0,41	27,5	1133,5	1404
32140464	4 x 35,0	0,41	31,4	1543,2	1902
32140465	4 x 50,0	0,41	35,9	2145,9	2610

Other dimensions and colours are possible on request.



## Extra chemical resistance