

# Flexible Specialty Cables



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# FLEXIBLE SPECIALTY CABLES

## Application

■ Technical problems often arise that can not be solved properly with standard cables. At SAB North America, we believe the customer deserves the best possible solution and we are proud to be your source for special cable requirements. If we must modify one of our existing standard products or completely design a new construction, we will work together with you to meet all of your cable requirements. Whether you choose one of our standard cables from stock or require a completely new design you will find that our variety of cable styles and our flexibility as a specialty cable manufacturer are among our company's strengths.

We produce nearly every type of specialty cable, with minimums as low as 1500 feet - and in some cases even lower - to your exact construction specifications. Please provide us with the following details:

- conductor material
- number of conductors
- cross sections
- colors
- outer diameter
- flexibility
- low and high temperature resistance
- materials
- types of screening
- combined cables
- technical specifications
- optical waveguide
- number of fibers
- POF (polymeric optical fibres)

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■ Of course we can also meet other requirements not listed above. Your special cable requests are always a priority and our highly motivated team will meet and exceed all of your special needs. By applying our comprehensive know-how, you will surely be able to improve the efficiency of your machines.

# FLEXIBLE SPECIALTY CABLES

## Selection index

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	Cable type	Cable types																						
		CRX 600	CRX 600 C	SAB <sup>sq</sup> lar PV1-F	SAB <sup>sq</sup> lar PV1-F dual	SAB <sup>sq</sup> lar PV Wire	SAB <sup>sq</sup> lar PV1-F with UL	SABIX® Lift	SABIX® Lift ST	H05VH6-F	H07VH6-F	DR 717 P Hightflex	DR 718 CP Hightflex	DR 721 P	DR 720 P Hightflex	Spreader 722	Festoon 715 P	MR 460	BB 380 Boarding Bridge	SAB <sup>clear</sup> RT 123 D TP (B)	SAB <sup>clear</sup> RT 793 D	SAB <sup>clear</sup> RT 795 D		
Application	Single conductors			x		x	x																	
	Colored conductors																							
	Numbered conductors	x	x					x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
	Copper screen		x																			x	x	x
	Inner jacket											x	x	x	x									
Temperature range static*	+ 120 °C																							
	+ 105 °C																							
	+ 90 °C																							
	+ 80 °C																							
	+ 70 °C																							
	- 30 °C																							
	- 40 °C																							
	- 50 °C																							
Voltage	Voltage UL 600 V / cUL 1000 V	x	x																					
	Voltage UL/CSA 300 V																				x			
	Voltage UL/CSA 600 V																					x	x	
	Peak operating voltage: UL/CSA 300 V																					x		
	Peak operating voltage: UL/CSA 600 V																						x	
	Peak operating voltage: DIN VDE max. 350 V																					x		
	Peak operating voltage: DIN VDE 300/500 V																					x	x	
	Nominal voltage Uo/U: 300/500 V	x	x					x	x	x		x	x				x		x	x				
	Nominal voltage Uo/U: 450/750 V																							
	Nominal voltage Uo/U: 600 V					x	x																	
	Nominal voltage Uo/U: 0.6/1 kV			x	x										x	x			x					
	Testing voltage: 1500 V																					x		
	Testing voltage: 2000 V	x	x					x	x			x	x				x		x					
Testing voltage: 3000 V					x															x		x		
Testing voltage: 4000 V														x	x			x						
Testing voltage: 6500 V			x	x		x																		
Standards and approvals	Zero halogen acc. to DIN VDE and IEC							x	x			x	x		x		x	x	x					
	Zero halogen acc. to EN 50267-2-1 and EN 60684-2			x	x	x	x																	
	No flame propagation acc. to IEC / EN							x	x															
	Flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2	x	x	x	x	x	x			x	x	x	x	x	x				x					
	Flame retardant and self-extinguishing acc. to UL VW-1, cUL FT1 FT2 (UL) listed	x	x																					
	UL recognized	x	x																			x	x	
	cUL recognized	x	x																			x	x	
	CSA approved																					x	x	
Characteristics	Tensile strength acc. to DIN VDE												x	x	x	x								
	Oil resistant 60°C	x	x																					
	Oil resistant acc. to internal standard									x	x													
	Oil resistant acc. to DIN VDE													x	x	x	x	x	x	x				
	Good chemical resistance																							
	Weather resistance			x	x	x	x								x	x	x	x						
	Sunlight resistance			x	x	x	x							x	x	x	x			x	x			
	Ozone resistance			x	x	x	x																	
	Ammonia resistance			x	x	x	x																	
	Absence of marten attractants			x	x	x	x																	

Temperature range:



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

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# FLEXIBLE SPECIALTY CABLES

## CRX 600 Oil resistant 105°C flexible control cable



Marking for CRX 600 32041603:

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

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

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	TPE 355
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
<b>Stranding:</b>	in layers
<b>Jacket material:</b>	TPE 355
<b>Jacket color:</b>	gray

### Technical data:

<b>Voltage:</b>	<b>UL:</b> 600 V	<b>cUL:</b> 1000 V
<b>Nominal voltage:</b>	<b>DIN VDE:</b> Uo/U 300/500 V	
<b>Testing voltage U:</b>	conductor/conductor 2000 V	
<b>Min. bending radius</b>		
<i>fixed installation:</i>	< 12 mm = 3 x O.D. > 12 mm = 4 x O.D.	
<i>free movement:</i>	< 12 mm = 5 x O.D. > 12 mm = 6 x O.D.	
<b>Temperature range</b>	<b>DIN VDE:</b>	<b>UL + cUL:</b> up to +105°C
<i>static:</i>	-30/+80°C	
<i>flexing:</i>	-20/+80°C	
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2, UL VW-1, cUL FT1 FT2	
<b>Oil resistance:</b>	Oil 60 °C	

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### Outstanding features:

- ▶ **General purpose flexing applications requiring UL and cUL recognition**

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
<b>▶ 20 AWG (≈ 16/32) • 0.50 mm<sup>2</sup></b>					<b>▶ 16 AWG (≈ 27-29/30) • 1.50 mm<sup>2</sup></b>					<b>▶ 12 AWG (≈ 52/28) • 4.00 mm<sup>2</sup></b>				
32042002	2	0.209	5.3	24	32041602	2	0.260	6.6	45	32041203	3	0.382	9.7	115
32042003	3	0.220	5.6	28	32041603	3	0.272	6.9	54	32041204	4	0.425	10.8	146
32042004	4	0.236	6.0	34	32041604	4	0.303	7.7	68	32041205	5	0.476	12.1	181
32042007	7	0.280	7.1	51	32041605	5	0.331	8.4	78	32041207	7	0.528	13.4	226
32042012	12	0.370	9.4	83	32041607	7	0.366	9.3	102	<b>▶ 10 AWG (≈ 78/28) • 6.00 mm<sup>2</sup></b>				
32042015	15	0.417	10.6	106	32041612	12	0.492	12.5	170	32041003	3	0.449	11.4	166
32042025	25	0.547	13.9	144	32041615	15	0.555	14.1	213	32041004	4	0.500	12.7	211
<b>▶ 18 AWG (≈ 30/32) • 1.00 mm<sup>2</sup></b>					32041618	18	0.591	15.0	222	32041005	5	0.559	14.2	261
32041802	2	0.236	6.0	33	32041625	25	0.717	18.2	251	<b>▶ 8 AWG (≈ 77/26) • 10.00 mm<sup>2</sup></b>				
32041803	3	0.248	6.3	40	32041650	50	0.965	24.5	347	32040804	4	0.760	19.3	406
32041804	4	0.268	6.8	48	<b>▶ 14 AWG (≈ 46/30) • 2.50 mm<sup>2</sup></b>					<b>▶ 6 AWG (≈ 122/26) • 16.00 mm<sup>2</sup></b>				
32041805	5	0.299	7.6	60	32041403	3	0.327	8.3	77	32040604	4	0.835	21.2	576
32041807	7	0.323	8.2	75	32041404	4	0.335	8.5	97	<b>▶ 4 AWG (≈ 190/26) • 25.00 mm<sup>2</sup></b>				
32041809	9	0.413	10.5	108	32041405	5	0.398	10.1	120	32040404	4	1.043	26.5	930
32041812	12	0.437	11.1	126	32041407	7	0.441	11.2	157	<b>▶ 2 AWG (≈ 272/26) • 35.00 mm<sup>2</sup></b>				
32041815	15	0.492	12.5	159	32041412	12	0.602	15.3	266	32040204	4	1.189	30.7	1271
32041818	18	0.524	13.3	187	32041418	18	0.717	18.2	391	<b>▶ 1 AWG (≈ 400/26) • 50.00 mm<sup>2</sup></b>				
32041825	25	0.638	16.2	256	32041425	25	0.878	22.3	540	32040104	4	1.378	35.0	1736
32041850	50	0.850	21.6	485										

Other dimensions and colors are possible on request.

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# FLEXIBLE SPECIALTY CABLES

## CRX 600 C Oil resistant 105°C flexible shielded control cable



Marking for CRX 600 C 32141603:

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

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

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	TPE 355
<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>	non-woven tape
<b>Screen:</b>	tinned copper braiding
<b>Jacket material:</b>	TPE 355
<b>Jacket color:</b>	gray

### Technical data:

<b>Voltage:</b>	<b>UL:</b> 600 V	<b>cUL:</b> 1000 V
<b>Nominal voltage:</b>	<b>DIN VDE:</b> Uo/U 300/500 V	
<b>Testing voltage U:</b>	conductor/conductor 2000 V conductor/screen 1000 V	
<b>Min. bending radius</b>		
<i>fixed installation:</i>	< 12 mm = 3 x O.D. > 12 mm = 4 x O.D.	
<i>free movement:</i>	< 12 mm = 5 x O.D. > 12 mm = 6 x O.D.	
<b>Temperature range</b>	<b>DIN VDE:</b>	<b>UL + cUL:</b> up to +105°C
<i>static:</i>	-30/+80°C	
<i>flexing:</i>	-20/+80°C	
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2, UL VW-1, cUL FT1 FT2	
<b>Oil resistance:</b>	Oil 60 °C	

### Outstanding features:

- ▶ **General purpose flexing applications requiring UL and cUL recognition**

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

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

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

Other dimensions and colors are possible on request.

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# FLEXIBLE SPECIALTY CABLES

The requirements acc. to the VDE application prescriptions VDE-AR-E 2283-4 are fulfilled.



**SAB<sup>solar</sup> PV1-F** Halogen-free cable for photovoltaic systems

B 110361971005



+120 °C

VDE-REG.-Nr. 8292



TÜVSüd-Bauart geprüft B 110361971005 CE

Marking for SAB<sup>solar</sup> PV1-F 71913386:

SAB BRÖCKSKES · D-VIERSEN · SAB<sup>solar</sup> PV1-F 4,0 mm<sup>2</sup> VDE-REG.-Nr. 8292 · TÜVSüd-Bauart geprüft B 110361971005 CE

The SAB<sup>solar</sup> PV1-F cable with improved fire performance and temperature resistance is particularly used as connection cable in photo-voltaic systems. The cable is suitable for various climatic conditions such as outdoor use as well as for fixed laying in dry, damp and wet rooms. Our solar cable is approved for a maximum temperature at the conductor +120°C and suitable as electrical equipment of protection class II. The cable is available with black, red or blue outer jacket depending on the requirements of the customer.

## Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Primary insulation:</b>	SABIX <sup>®</sup> solar
<b>Color code primary insulation:</b>	see table below
<b>Secondary insulation:</b>	SABIX <sup>®</sup> solar
<b>Color code secondary insulation:</b>	see table below

## Technical data:

<b>Nominal voltage U<sub>0</sub>/U:</b>	0.6/1 KV (AC)
<b>Testing voltage:</b>	6500 V (AC)
<b>Min. bending radius:</b>	3 x O.D. ∅ < 12 mm 4 x O.D. ∅ > 12 mm
<b>Temperature range:</b>	<b>VDE-REG.-no. 8292 as well as TÜV SÜD type tested B 110361971005:</b> up to +90 °C  for ambient temperature: maximum temperature at the conductor: for installation: fixed laying: shortcircuit: +120 °C -30/+120 °C -40/+120 °C +250 °C
<b>Zero halogen:</b>	without hydrogen chloride acc. to EN 50267-2-1, without fluorine content acc. to EN 60684-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50257-2-2 + VDE 0482 part 267-2-2 no development of corrosive conflagration gases
<b>Burning characteristics</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Sunlight resistance:</b>	yes
<b>Weather resistance:</b>	very good
<b>Ozone resistance:</b>	acc. to EN 50396
<b>Ammonia resistance:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

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## Outstanding features:

- ▶ fulfills the requirements acc. to the VDE application prescriptions VDE-AR-E 2283-4
- ▶ halogen-free
- ▶ no flame propagation
- ▶ flame retardant and self-extinguishing
- ▶ up to +120 °C
- ▶ weather resistant
- ▶ sunlight resistance
- ▶ with improved fire performance
- ▶ expected service life, up to 25 years
- ▶ very good resistance against acids and alkaline solutions
- ▶ ammonia resistance
- ▶ absence of marten attractants

suitable for protecting class II

item no.	nominal cross section mm <sup>2</sup>	AWG	max. outer-∅ inch	max. outer-∅ mm	cable weight ≈ lbs/mft
▶ 7191 .. 82	1.50	16 (≈ 27-29/30)	0.197	5.0	26
▶ 7191 .. 84	2.50	14 (≈ 46/30)	0.213	5.4	34
▶ 7191 .. 86	4.00	12 (≈ 52/28)	0.236	6.0	45
▶ 7191 .. 87	6.00	10 (≈ 78/28)	0.272	6.9	64
▶ 7191 .. 88	10.0	8 (≈ 77/26)	0.350	8.9	109
▶ 7191 .. 89	16.0	6 (≈ 122/26)	0.406	10.3	157
▶ 7191 .. 90	25.0	4 (≈ 190/26)	0.492	12.5	237
▶ 7191 .. 91	35.0	2 (≈ 272/26)	0.547	13.9	311

Other dimensions are possible on request.

Marking for primary and secondary insulation		
Primary insulation / secondary insulation		
33 black / black	38 black / red	32 black / blue
83 red / black	88 red / red	22 blue / blue
23 blue / black	Other colors are possible on request.	

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# FLEXIBLE SPECIALTY CABLES

The requirements acc. to the VDE application prescriptions VDE-AR-E 2283-4 are fulfilled.



## SAB<sup>solar</sup> PV1-F dual Halogen-free cable for photovoltaic systems

B 110361971005



92 · TÜVSüd-Bauart geprüft B 110361971005 CE

Marking for SAB<sup>solar</sup> PV1-F dual 71918317:

SAB BRÖCKSKES · D-VIERSEN · SAB<sup>solar</sup> PV1-F 2x6,0 mm<sup>2</sup> VDE-REG.-Nr. 8292 · TÜVSüd-Bauart geprüft B 110361971005 CE

The SAB<sup>solar</sup> PV1-F cable with improved fire performance and temperature resistance is particularly used as connection cable in photo-voltaic systems. The cable is suitable for various climatic conditions such as outdoor use as well as for fixed laying in dry, damp and wet rooms. Our solar cable is approved for a maximum temperature at the conductor +120°C and suitable as electrical equipment of protection class II. The cable is available with black, red or blue outer jacket depending on the requirements of the customer.

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Primary insulation:</b>	SABIX <sup>®</sup> solar
<b>Color code primary insulation:</b>	black / red or black / blue
<b>Secondary insulation:</b>	SABIX <sup>®</sup> solar
<b>Color code secondary insulation:</b>	black

### Outstanding features:

- fulfills the requirements acc. to the VDE application prescriptions VDE-AR-E 2283-4
- halogen-free
- no flame propagation
- flame retardant and self-extinguishing
- up to +120 °C
- weather resistant
- sunlight resistance
- with improved fire performance
- expected service life, up to 25 years
- very good resistance against acids and alkaline solutions
- ammonia resistance
- absence of marten attractants

### Technical data:

<b>Nominal voltage U<sub>o</sub>/U:</b>	0.6/1 KV (AC)
<b>Testing voltage:</b>	6500 V (AC)
<b>Min. bending radius:</b>	
∅ ≤ 12 mm	3 x O.D.
∅ > 12 mm	4 x O.D.
<b>Temperature range:</b>	<b>VDE-REG.-no. 8292 as well as TÜV SÜD type tested B 110361971005:</b> up to +90 °C
for ambient temperature:	
maximum temperature at the conductor:	+120 °C
for installation:	-30/+120 °C
fixed laying:	-40/+120 °C
shortcircuit:	+250 °C
<b>Zero halogen:</b>	without hydrogen chloride acc. to EN 50267-2-1, without fluorine content acc. to EN 60684-2
<b>Corrossiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50257-2-2 + VDE 0482 part 267-2-2 no development of corrosive conflagration gases
<b>Burning characteristics</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Sunlight resistance:</b>	yes
<b>Weather resistance:</b>	very good
<b>Ozone resistance:</b>	acc. to EN 50396
<b>Ammonia resistance:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

**suitable for protecting class II**

item no.	nominal cross section mm <sup>2</sup>	AWG	outer-∅ approx. inch	outer-∅ approx. mm	cable weight ≈ lbs/mft
➤ 7191 .. 16	4.00	12 (≈ 52/28)	0.236 x 0.469	6.0 x 11.9	94
➤ 7191 .. 17	6.00	10 (≈ 78/28)	0.272 x 0.543	6.9 x 13.8	128
➤ 7191 .. 18	10.0	8 (≈ 77/26)	0.343 x 0.685	8.7 x 17.4	217

Other dimensions are possible on request.

### Marking for primary and secondary insulation

Primary insulation / secondary insulation		
83 red / black	23 blue / black	Other colors are possible on request.

E-mail: [info@sabcable.com](mailto:info@sabcable.com)



Web site: [www.sabcable.com](http://www.sabcable.com)



# FLEXIBLE SPECIALTY CABLES

**SAB<sup>solar</sup> PV Wire** Halogen-free cable  
for photovoltaic systems



Photovoltaic Wire  
Service-Entrance Cable



Service-Entrance Cable Type USE-2 600V Single Conductor

Marking for SAB<sup>solar</sup> PV Wire 718133866:

SAB BRÖCKSKES · D-VIERSEN · SAB<sup>solar</sup> 12 AWG (UL) · Photovoltaic Wire 600V 90°C dry 90°C wet sunlight-resistant -40°C  
(UL) Service-Entrance Cable Type USE-2 600V Single Conductor CE

The SAB<sup>solar</sup> PV1-F cable with improved fire performance and temperature resistance is particularly used as connection cable in photo-voltaic systems. The cable is suitable for various climatic conditions such as outdoor use as well as for fixed laying in dry, damp and wet rooms. Our solar cable is approved for a maximum temperature at the conductor +120°C and suitable as electrical equipment of protection class II. The cable is available with black, red or blue outer jacket depending on the requirements of the customer.

## Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5 and UL standard 758 table 5.1 + UL 1581 table 20.1
<b>Primary insulation:</b>	SABIX® 285
<b>Color code primary insulation:</b>	see table below
<b>Secondary insulation:</b>	SABIX® 285
<b>Color code secondary insulation:</b>	see table below

## Outstanding features:

- ▶ UL Subject 4703 PV Wire
- ▶ UL 854 USE-2
- ▶ halogen-free
- ▶ flame retardant and self-extinguishing
- ▶ weather resistant
- ▶ sunlight resistance
- ▶ very good resistance against acids and alkaline solutions
- ▶ connection cable for photovoltaic modules acc. to NEC Section 690.31 (A)
- ▶ ammonia resistance
- ▶ absence of marten attractants

## Technical data:

<b>Nominal voltage:</b>	600 V (AC)
<b>Testing voltage:</b>	3000 V (AC)
<b>Min. bending radius:</b>	
∅ ≤ 12 mm	3 x O.D.
∅ > 12 mm	4 x O.D.
<b>Temperature range:</b>	
for ambient temperature:	-40/+90 °C
<b>Zero halogen:</b>	without hydrogen chloride acc. to EN 50267-2-1, without fluorine content acc. to EN 60684-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50257-2-2 + VDE 0482 part 267-2-2 no development of corrosive conflagration gases
<b>Burning characteristics</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 and (UL) FT1
<b>Sunlight resistance:</b>	yes
<b>Weather resistance:</b>	very good
<b>Ozone resistance:</b>	acc. to EN 50396
<b>Ammonia resistance:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

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item no.	AWG	max. outer-∅ inch	max. outer-∅ mm	cable weight ≈ lbs/mft
▶ 7181 .. 86	12 (≈ 52/28)	0.260	6.6	52
▶ 7181 .. 87	10 (≈ 78/28)	0.280	7.1	65
▶ 7181 .. 88	8 (≈ 77/26)	0.350	8.9	101

Other dimensions are possible on request.

## Marking for primary and secondary insulation

Primary insulation / secondary insulation		
33 black / black	23 blue / black	63 white / black
83 red / black	Other colors for the primary insulation possible on request.	

E-mail: [info@sabcable.com](mailto:info@sabcable.com)



Web site: [www.sabcable.com](http://www.sabcable.com)



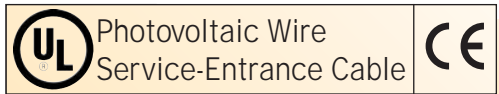
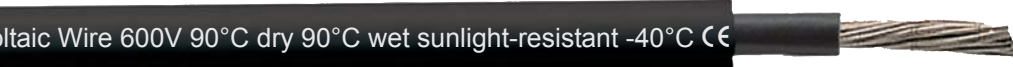
# FLEXIBLE SPECIALTY CABLES

The requirements acc. to the VDE application prescriptions VDE-AR-E 2283-4 are fulfilled.



## SAB<sup>solar</sup> PV1-F with UL Halogen-free cable for photovoltaic systems

B 110361971005



Marking for SAB<sup>solar</sup> PV1-F with UL 71913346:  
 SAB BRÖCKSKES · D-VIERSEN · SAB<sup>solar</sup> PV1-F 4,0 mm<sup>2</sup> · VDE-REG.-Nr. 8292 · TÜVSüd-Bauart geprüft B 110361971005  
 AWG12 (UL) Photovoltaic Wire 600V 90°C dry 90°C wet sunlight-resistant -40°C  
 (UL) Service-Entrance Cable Type USE-2 600V Single Conductor CE

**+120 °C**  
**VDE-REG.-Nr. 8292**

The SAB<sup>solar</sup> PV1-F cable with improved fire performance and temperature resistance is particularly used as connection cable in photo-voltaic systems. The cable is suitable for various climatic conditions such as outdoor use as well as for fixed laying in dry, damp and wet rooms. Our solar cable is approved for a maximum temperature at the conductor +120°C and suitable as electrical equipment of protection class II. The cable is available with black, red or blue outer jacket depending on the requirements of the customer.

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### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5 and UL standard 758 table 5.1 + UL 1581 table 20.1
<b>Primary insulation:</b>	SABIX <sup>®</sup> solar
<b>Color code primary insulation:</b>	see table below
<b>Secondary insulation:</b>	SABIX <sup>®</sup> solar
<b>Color code secondary insulation:</b>	see table below

### Outstanding features:

- fulfills the requirements acc. to the VDE application prescriptions VDE-AR-E 2283-4
- UL Subject 4703 PV Wire
- UL 854 USE-2
- halogen-free
- no flame propagation
- flame retardant and self-extinguishing
- up to +120 °C
- weather resistant
- sunlight resistance
- with improved fire performance
- expected service life, up to 25 years
- very good resistance against acids and alkaline solutions
- connection cable for photovoltaic modules acc. to NEC Section 690.31 (A)
- ammonia resistance
- absence of marten attractants

### Technical data:

<b>Nominal voltage U<sub>0</sub>/U:</b>	0.6/1 KV (AC)	(UL): 600 V (AC)
<b>Testing voltage:</b>	6500 V (AC)	(UL): 3000 V (AC)
<b>Min. bending radius:</b>	∅ ≤ 12 mm ∅ > 12 mm	3 x O.D. 4 x O.D.
<b>Temperature range:</b>	<b>VDE-REG.-no. 8292 as well as TÜV SÜD type tested B 110361971005:</b> up to +90 °C (UL): -40°C/+90°C  for ambient temperature: maximum temperature at the conductor: for installation: fixed laying: shortcircuit:	
<b>Zero halogen:</b>	without hydrogen chloride acc. to EN 50267-2-1, without fluorine content acc. to EN 60684-2	
<b>Corrossiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50257-2-2 + VDE 0482 part 267-2-2 no development of corrosive conflagration gases	
<b>Burning characteristics</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 and (UL) FT1	
<b>Sunlight resistance:</b>	yes	
<b>Weather resistance:</b>	very good	
<b>Ozone resistance:</b>	acc. to EN 50396	
<b>Ammonia resistance:</b>	very good	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28	

**suitable for protecting class II**

item no.	nominal cross section mm <sup>2</sup>	AWG	max. outer-∅ inch	mm	cable weight ≈ lbs/mft
➤ 7191 .. 46	4.00	12 (≈ 52/28)	0.268	6.8	53
➤ 7191 .. 47	6.00	10 (≈ 78/28)	0.295	7.5	77

Other dimensions are possible on request.

Marking for primary and secondary insulation		
Primary insulation / secondary insulation		
33 black / black	83 red / black	23 blue / black
83 white / black	Other colors are possible on request.	

# FLEXIBLE SPECIALTY CABLES

with improved  
fire performance

## SABIX® Lift Lift control cable with sisal cord as suspension unit



D-VIERSEN · SABIX Lift 24 x 1,0 mm<sup>2</sup> CE

Marking for SABIX Lift 53902410:  
SAB BRÖCKSKES · D-VIERSEN · SABIX Lift 24 x 1,0 mm<sup>2</sup> CE

Our halogen-free lift cables are used whenever there are highest safety requirements, especially in public buildings and institutions as for example department stores, hospitals, railway and airport institutions, etc.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228 EN 60228, VDE 0295, class 6
<b>Insulation:</b>	special SABIX®
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334 and green-yellow earth wire
<b>Strain relief:</b>	sisal cord
<b>Stranding:</b>	sisal cord as core, optimized twisting of the conductors in layers
<b>Wrapping:</b>	netting tape on each layer with overlap wrapping
<b>Supporting braid:</b>	special torsion protecting net
<b>Outer jacket:</b>	thermoplastic special elastomer
<b>Jacket color:</b>	black

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	conductor/conductor 2000 V
<b>Min. bending radius:</b>	15 x O.D.
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Zero halogen:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Burning characteristics:</b>	no flame propagation acc. to IEC 60332 + EN 60332 category C resp. D (see page N/33)
<b>Suspended height:</b>	up to 60 m
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

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### Outstanding features:

- halogen-free
- long service life
- elevated economic efficiency
- flame retardant and self-extinguishing

item no.	no. of conductors incl. ground	medium outer- $\phi$ inch	mm	cable weight $\approx$ lbs/mft	ohmic resistance at 20 °C max. $\Omega$ /km
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➤ 18 AWG ( $\approx$  56/34) • 1.00 mm<sup>2</sup>

53900710	7	0.465	11.8	125	19.5
53902410	24	0.866	22.0	397	19.5
53903010	30	0.917	23.3	478	19.5

Further dimensions or special constructions on request.

### Possible on request!



- with total copper braiding
- with different conductor and jacket colors

**Note: Please pay attention to the installation instructions on page N/12!  
You will find a life cycle test SABIX® Lift on page N/35!**

E-mail: [info@sabcable.com](mailto:info@sabcable.com)



Web site: [www.sabcable.com](http://www.sabcable.com)

Highest hanging lengths

# FLEXIBLE SPECIALTY CABLES



## SABIX® Lift ST Lift control cable with steel center as suspension unit

KSSES · D-VIERSEN · SABIX Lift ST 24 x 1,0 mm<sup>2</sup> CE



Marking for SABIX Lift ST 53912410:  
SAB BRÖCKSKES · D-VIERSEN · SABIX Lift ST 24 x 1,0 mm<sup>2</sup> CE

Our halogen-free lift cables are used whenever there are highest safety requirements, especially in public buildings and institutions as for example department stores, hospitals, railway and airport institutions, etc.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228 EN 60228, VDE 0295, class 6
<b>Insulation:</b>	special SABIX®
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334 and green-yellow earth wire
<b>Strain relief:</b>	steel rope in the center
<b>Stranding:</b>	steel rope as core, optimized twisting of conductors in layers
<b>Wrapping:</b>	netting tape on each layer with overlap wrapping
<b>Supporting braid:</b>	special torsion protecting net
<b>Outer jacket:</b>	thermoplastic special elastomer
<b>Jacket color:</b>	black

### Outstanding features:

- halogen-free
- long service life
- highest hanging lengths
- flame retardant and self-extinguishing

### Technical data:

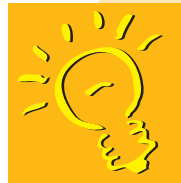
<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	conductor/conductor 2000 V
<b>Min. bending radius:</b>	15 x O.D.
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Zero halogen:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Burning characteristics:</b>	no flame propagation acc. to IEC 60332 + EN 60332 category C resp. D (see page N/33)
<b>Suspended height:</b>	up to 200 m
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

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item no.	no. of conductors incl. ground	medium outer-ø inch	medium outer-ø mm	cable weight ≈ lbs/mft	ohmic resistance at 20 °C max. Ω/km
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▶ 18 AWG (≈ 56/34) • 1.00 mm <sup>2</sup>					
53912410	24	0.732	18.6	390	19.5
53913010	30	0.823	20.9	511	19.5

Further dimensions or special constructions on request.



### Possible on request!

- with total copper braiding
- with different conductor and jacket colors

**Note: Please pay attention to the installation instructions on page N/12!  
You will find a life cycle test SABIX® Lift on page N/35!**

E-mail: [info@sabcable.com](mailto:info@sabcable.com)



Web site: [www.sabcable.com](http://www.sabcable.com)

# FLEXIBLE SPECIALTY CABLES

## H05VVH6-F PVC flat cables



BRÖCKSKES · D-VIERSEN · <VDE> <HAR> H05VVH6-F 24G0,75

Marking for PVC flat cable 02142407:

SAB BRÖCKSKES · D-VIERSEN · <VDE> <HAR> H05VVH6-F 24G0,75 mm<sup>2</sup> CE

H05VVH6-F is a flexible, flame retardant, PVC festoon power and control cable designed for use on overhead crane and material handling systems. The flat construction allows cables to be stacked for applications where space is limited.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228 EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC
<b>Color code:</b>	black with white numbers and green-yellow earth wire
<b>Stranding:</b>	conductors parallel side by side in groups
<b>Outer jacket:</b>	PVC
<b>Jacket color:</b>	black

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Min. bending radius:</b>	10 x O.D.
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	0/+70 °C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page N/27
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

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item no.	no. of conductors incl. ground	nominal outer- $\phi$ inch	mm	cable weight $\approx$ lbs/100ft
<b>► 19 AWG (<math>\approx</math> 23/32) • 0.75 mm<sup>2</sup></b>				
02140607	6	0.701 x 0.165	5.9 x 4.2	92
02140907	9	1.016 x 0.165	6.2 x 4.2	134
02141207	12	1.539 x 0.165	6.6 x 4.2	175
02141607	16	1.713 x 0.165	7.8 x 4.2	230
02141807	18	1.906 x 0.165	10.0 x 4.2	257
02142007	20	2.122 x 0.165	11.5 x 4.2	286
02142407	24	2.531 x 0.165	14.7 x 4.2	342
<b>► 18 AWG (<math>\approx</math> 30/32) • 1.00 mm<sup>2</sup></b>				
02140410	4	0.500 x 0.169	6.6 x 4.3	71
02140510	5	0.602 x 0.169	7.0 x 4.3	87
02140610	6	0.724 x 0.169	7.5 x 4.3	103
02140910	9	1.051 x 0.169	8.2 x 4.3	151
02141210	12	1.350 x 0.169	9.0 x 4.3	196
02141610	16	1.776 x 0.169	11.3 x 4.3	259
02141810	18	1.976 x 0.169	12.1 x 4.3	289
02142010	20	2.201 x 0.169	17.2 x 4.3	322
02142410	24	2.626 x 0.169	22.8 x 4.3	384

Other dimensions and colors are possible on request.

E-mail: [info@sabcable.com](mailto:info@sabcable.com)



Web site: [www.sabcable.com](http://www.sabcable.com)

# FLEXIBLE SPECIALTY CABLES



## H07VVH6-F PVC flat cables



· D-VIERSEN · <VDE><HAR> H07VVH6-F 12 x 1,5 mm<sup>2</sup> CE



Marking for PVC flat cable 02491215:

SAB BRÖCKSKES · D-VIERSEN · <VDE><HAR> H07VVH6-F 12 x 1,5 mm<sup>2</sup> CE

H07VVH6-F is a flexible, flame retardant, PVC festoon power and control cable designed for use on overhead crane and material handling systems. The flat construction allows cables to be stacked for applications where space is limited.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228 EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC
<b>Color code:</b>	colored acc. to HD 308 (VDE 0293 part 308); black conductors with consecutive numbers acc. to EN 50334 from 6 conductors; green-yellow earth wire from 3 conductors
<b>Stranding:</b>	conductors parallel side by side in groups
<b>Outer jacket:</b>	PVC
<b>Jacket color:</b>	black

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 450/750 V
<b>Min. bending radius:</b>	10 x O.D.
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+70 °C
<i>flexible application:</i>	0/+70 °C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page N/27
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

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item no.	no. of conductors incl. ground	nominal outer- $\phi$ inch	nominal outer- $\phi$ mm	cable weight $\approx$ lbs/mft	item no.	no. of conductors incl. ground	nominal outer- $\phi$ inch	nominal outer- $\phi$ mm	cable weight $\approx$ lbs/mft
<b>▶ 16 AWG (<math>\approx</math> 27-29/30) • 1.50 mm<sup>2</sup></b>					<b>▶ 12 AWG (<math>\approx</math> 52/28) • 4.00 mm<sup>2</sup></b>				
02490415	4	0.602 x 0.205	15.3 x 5.2	97	02491240	12	2.260 x 0.268	57.4 x 6.8	577
02490715	7	1.008 x 0.205	25.6 x 5.2	168	<b>▶ 10 AWG (<math>\approx</math> 78/28) • 6.00 mm<sup>2</sup></b>				
02490815	8	1.126 x 0.205	28.6 x 5.2	190	02490460	4	0.894 x 0.287	22.7 x 7.3	253
02491215	12	1.605 x 0.205	41.9 x 5.2	283	02490560	5	1.083 x 0.287	27.5 x 7.3	295
<b>▶ 14 AWG (<math>\approx</math> 46/30) • 2.50 mm<sup>2</sup></b>					<b>▶ 8 AWG (<math>\approx</math> 77/26) • 10.00 mm<sup>2</sup></b>				
02490425	4	0.720 x 0.228	18.3 x 5.8	138	02490570	5	1.406 x 0.366	35.7 x 9.3	542
02491225	12	1.996 x 0.228	50.7 x 5.8	406	<b>▶ 4 AWG (<math>\approx</math> 190/26) • 25.00 mm<sup>2</sup></b>				
					02490490	4	1.673 x 0.508	42.5 x 12.9	946

Other dimensions and colors are possible on request.

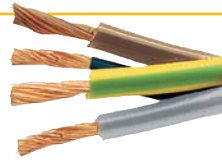
E-mail: [info@sabcable.com](mailto:info@sabcable.com)



Web site: [www.sabcable.com](http://www.sabcable.com)

# FLEXIBLE SPECIALTY CABLES

## DR 717 P Highflex PUR reeling cable



BRÖCKSKES · D-VIERSEN · DR 717 P Highflex 4 G 2,5 mm<sup>2</sup> CE

Marking for DR 717 P Highflex 07170425:  
SAB BRÖCKSKES · D-VIERSEN · DR 717 P Highflex 4 G 2,5 mm<sup>2</sup> CE

The DR 717 P Highflex is used for spring cable reels on stages and theaters.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228 EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special polymer
<b>Color code:</b>	colored acc. to HD 308 (VDE 0293 part 308); from 6 conductors black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors <i>DMX-bus:</i> white/brown, green/yellow <i>IE Cat 5:</i> white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
<b>Stranding:</b>	specially adjusted layering around a central suspension unit
<b>Inner jacket:</b>	PUR
<b>Supporting screen:</b>	high-tech yarn
<b>Outer jacket:</b>	PUR
<b>Jacket color:</b>	black

### Outstanding features:

- reeling length up to 60 m
- high winding and unwinding strength
- corresponds to low voltage guideline 73/23/EWG CE
- small outer diameter
- small cable weight

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V (supply conductors)		
<b>Peak operating voltage:</b>	<i>item no. 07179001:</i> max. 500 V (DMX-bus) <i>item no. 07179002:</i> max. 125 V (IE Cat 5)		
<b>Testing voltage:</b>	conductor/conductor 2000 V		
<b>Current-carrying capacity:</b>	acc. to DIN VDE 0298-4, see page N/18 + 19		
<b>Min. bending radius:</b>	for laying and installation (fixed laying): ≤ 12 mm 3 x O.D. / >12 mm 4 x O.D. for repeated winding action (flexible): 6 x O.D. guided on deflection pulleys (flexible): 7,5 x O.D.		
<b>Temperature range</b>	<i>item no. 07179001</i>	<i>item no. 07179002</i>	<i>item no. 07179002</i>
<i>with installation:</i>			0/+50 °C
<i>fixed laying:</i>	-50/+90 °C	-40/+70 °C	-20/+60 °C
<i>flexible application:</i>	-40/+90 °C	-40/+70 °C	-20/+60 °C
<b>Zero halogen:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1		
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2		
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10		
<b>Chemical resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids, etc.		
<b>Sunlight resistance:</b>	very good - enhanced due to black jacket color		
<b>Tensile strength:</b>	with reference to DIN VDE 0298-3 section 7.1		
<b>Mechanical characteristics:</b>	the main mechanical characteristics accomplished by the PUR outer jacket are: - high tensile strength - high tear strength - high abrasion resistance - high notch resistance		
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28		

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item no.	dimensions	max. outer-ø ± 5%		cable weight ≈ lbs/mft	tensile strength max. N	min breaking load of suspension unit N
		inch	mm			
➤ 07170425	14 AWG (≈ 46/30) / 4c	0.382	9.7	106	150	1345
➤ 07170440	12 AWG (≈ 52/28) / 4c	0.461	11.7	161	240	1690
➤ 07171440	12 AWG (≈ 52/28) / 14c	0.823	20.9	497	840	2500
➤ 07172040	12 AWG (≈ 52/28) / 20c	0.917	23.3	686	1200	3700
➤ 07172540	12 AWG (≈ 52/28) / 25c	1.114	28.3	886	1500	4200
➤ 07170460	10 AWG (≈ 78/28) / 4c	0.528	13.4	224	360	1860
➤ 07171360	10 AWG (≈ 78/28) / 13c	0.957	24.3	681	1170	3700
➤ 07170470	8 AWG (≈ 77/26) / 4c	0.673	17.1	376	600	2300
➤ 07170480	6 AWG (≈ 122/26) / 4c	0.839	21.3	581	960	2800
➤ 07179001	12 AWG (≈ 52/28) / 14c + 24 AWG (≈ 14/34) / 2pr	0.882	22.4	534	840	2500
➤ 07179002	6 AWG (≈ 122/26) / 5c + 26 AWG (≈ 18/38) / 4pr	1.039	26.4	782	1200	3000
➤ 07179013	12 AWG (≈ 52/28) / 25c	0.984 1.102	min. 25.0 max. 28.0	867	1500	2600

Other dimensions and colors are possible on request.

Please mention the required winding length when placing the order.

**Note: Please pay attention to the installation instructions on page N/11**

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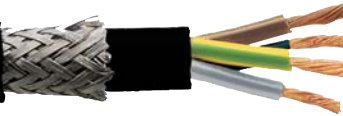
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# FLEXIBLE SPECIALTY CABLES



## DR 718 CP Highflex PUR shielded reeling cable

BRÖCKSKES · D-VIERSEN · DR 718 CP Highflex 4 x 2,5 mm<sup>2</sup> CE



Marking for DR 718 CP Highflex 07180425:  
SAB BRÖCKSKES · D-VIERSEN · DR 718 CP Highflex 4 x 2,5 mm<sup>2</sup> CE

The DR 718 CP Highflex is used for spring cable reels on stages for example in theaters as well as control cable in crane arms.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228 EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special polymer
<b>Color code:</b>	colored acc. to HD 308 (VDE 0293 part 308); from 6 conductors black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
<b>Stranding:</b>	specially adjusted layering
<b>Inner jacket:</b>	PUR
<b>Screen:</b>	tinned copper braiding
<b>Jacket material:</b>	PUR
<b>Jacket color:</b>	black

### Outstanding features:

- good winding and unwinding strength
- small cable weight
- good EMC characteristics

**Also possible without inner jacket!**



### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	2000 V
<b>Current-carrying capacity:</b>	acc. to DIN VDE 0298-4, see page N/18 + 19
<b>Min. bending radius:</b>	
for laying and installation (fixed laying):	5 x O.D.
for repeated winding action (flexible):	7,5 x O.D.
guided on deflection pulleys: (flexible):	10 x O.D.
<b>Temperature range:</b>	
fixed laying:	-50/+90 °C
flexible:	-40/+90 °C
<b>Zero halogen:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 und EN 60332-1-2
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chemical resistance:</b>	very good against acids, alkaline solutions, solvents and hydraulic liquids, etc.
<b>Sunlight resistance:</b>	very good - enhanced due to black jacket color
<b>Tensile strength:</b>	acc. to DIN VDE 0298-3 section 7.1
<b>Mechanical characteristics:</b>	the main mechanical characteristics accomplished by the PUR outer jacket are: - high tensile strength - high tear strength - high abrasion resistance - high notch resistance
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

item no.	dimensions	max. outer-ø ± 5%		cable weight ≈ lbs/mft	tensile strength max. N	min breaking load of suspension unit N
		inch	mm			
➤ 07182005	20 AWG (≈ 16/32) / 20c	0.504	12.8	173	150	1600
➤ 07182505	20 AWG (≈ 16/32) / 25c	0.587	14.9	222	187	1700
➤ 07182507	19 AWG (≈ 23/32) / 25c	0.665	16.9	297	281	2000
➤ 07180410	18 AWG (≈ 30/32) / 4c	0.315	8.0	69	60	1100
➤ 07181210	18 AWG (≈ 30/32) / 12c	0.591	15.0	213	180	2000
➤ 07181810	18 AWG (≈ 30/32) / 18c	0.571	14.5	234	270	2200
➤ 07182510	18 AWG (≈ 30/32) / 25c	0.701	17.8	351	375	2400
➤ 07182610	18 AWG (≈ 30/32) / 26c	0.701	17.8	358	390	2400
➤ 07180415	16 AWG (≈ 27-29/30) / 4c	0.350	8.9	89	90	1340
➤ 07180515	16 AWG (≈ 27-29/30) / 5c	0.402	10.2	118	112	1690
➤ 07180715	16 AWG (≈ 27-29/30) / 7c	0.469	11.9	159	157	2150

item no.	dimensions	max. outer-ø ± 5%		cable weight ≈ lbs/mft	tensile strength max. N	min breaking load of suspension unit N
		inch	mm			
➤ 07181215	16 AWG (≈ 27-29/30) / 12c	0.665	16.9	282	270	2600
➤ 07181415	16 AWG (≈ 27-29/30) / 14c	0.642	16.3	295	315	2600
➤ 07181615	16 AWG (≈ 27-29/30) / 16c	0.642	16.3	303	360	2600
➤ 07181815	16 AWG (≈ 27-29/30) / 18c	0.646	16.4	325	405	2600
➤ 07182415	16 AWG (≈ 27-29/30) / 24c	0.717	18.2	415	540	2800
➤ 07183015	16 AWG (≈ 27-29/30) / 30c	0.921	23.4	565	675	2900
➤ 07183715	16 AWG (≈ 27-29/30) / 37c	0.874	22.2	600	832	3200
➤ 07180425	14 AWG (≈ 46/30) / 4c	0.425	10.8	135	150	1345
➤ 07180525	14 AWG (≈ 46/30) / 5c	0.469	11.9	167	187	2100
➤ 07180725	14 AWG (≈ 46/30) / 7c	0.539	13.7	223	262	2500
➤ 07181225	14 AWG (≈ 46/30) / 12c	0.783	19.9	410	450	2900

Continued on next page

**Note: Please pay attention to the installation instructions on page N/11**

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# FLEXIBLE SPECIALTY CABLES

## DR 718 CP Highflex PUR shielded reeling cable



Marking for DR 718 CP Highflex 07180425:  
SAB BRÖCKSKES · D-VIERSEN · DR 718 CP Highflex 4 x 2,5 mm<sup>2</sup> CE

The DR 718 CP Highflex is used for spring cable reels on stages for example in theaters as well as control cable in crane arms.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228 EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special polymer
<b>Color code:</b>	colored acc. to HD 308 (VDE 0293 part 308); from 6 conductors black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
<b>Stranding:</b>	specially adjusted layering
<b>Inner jacket:</b>	PUR
<b>Screen:</b>	tinned copper braiding
<b>Jacket material:</b>	PUR
<b>Jacket color:</b>	black

### Outstanding features:

- good winding and unwinding strength
- small cable weight
- good EMC characteristics



**Also possible without inner jacket!**

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	2000 V
<b>Current-carrying capacity:</b>	acc. to DIN VDE 0298-4, see page N/18 + 19
<b>Min. bending radius:</b>	
for laying and installation (fixed laying):	5 x O.D.
for repeated winding action (flexible):	7,5 x O.D.
guided on deflection pulleys: (flexible):	10 x O.D.
<b>Temperature range:</b>	
fixed laying:	-50/+90 °C
flexible:	-40/+90 °C
<b>Zero halogen:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 und EN 60332-1-2
<b>Oil resistance:</b>	very good - TMPU acc. mto DIN VDE 0282 part 10 + HD 22.10
<b>Chemical resistance:</b>	very good against acids, alkaline solutions, solvents and hydraulic liquids, etc.
<b>Sunlight resistance:</b>	very good - enhanced due to black jacket color
<b>Tensile strength:</b>	acc. to DIN VDE 0298-3 section 7.1
<b>Mechanical characteristics:</b>	the main mechanical characteristics accomplished by the PUR outer jacket are: - high tensile strength - high tear strength - high abrasion resistance - high notch resistance
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

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item no.	dimensions	max. outer-ø ± 5%		cable weight ≈ lbs/mft	tensile strength max. N	min breaking load of suspension unit N
		inch	mm			
➤ 07181825	14 AWG (≈ 46/30) / 18c	0.768	19.5	476	675	3450
➤ 07182425	14 AWG (≈ 46/30) / 24c	0.929	23.6	638	900	2600
➤ 07183025	14 AWG (≈ 46/30) / 30c	1.055	26.8	798	1125	4200
➤ 07183625	14 AWG (≈ 46/30) / 36c	1.028	26.1	860	1350	5000
➤ 07184825	14 AWG (≈ 46/30) / 48c	1.209	30.7	1160	1800	6500
➤ 07185625	14 AWG (≈ 46/30) / 56c	1.283	32.6	1283	2100	7900
➤ 07180440	12 AWG (≈ 52/28) / 4c	0.484	12.3	191	240	1690
➤ 07180540	12 AWG (≈ 52/28) / 5c	0.539	13.7	233	300	2200
➤ 07180740	12 AWG (≈ 52/28) / 7c	0.642	16.3	336	420	2600
➤ 07180460	10 AWG (≈ 78/28) / 4c	0.539	13.7	261	360	1860
➤ 07180560	10 AWG (≈ 78/28) / 5c	0.618	15.7	331	450	2300

item no.	dimensions	max. outer-ø ± 5%		cable weight ≈ lbs/mft	tensile strength max. N	min breaking load of suspension unit N
		inch	mm			
➤ 07180760	10 AWG (≈ 78/28) / 7c	0.744	18.9	464	630	2600
➤ 07180470	8 AWG (≈ 77/26) / 4c	0.713	18.1	441	600	2900
➤ 07180570	8 AWG (≈ 77/26) / 5c	0.799	20.3	543	750	3000
➤ 07180480	6 AWG (≈ 122/26) / 4c	0.878	22.3	662	960	2800
➤ 07180580	6 AWG (≈ 122/26) / 5c	0.980	24.9	811	1200	3000
➤ 07180490	4 AWG (≈ 190/26) / 4c	1.063	27.0	972	1500	3300
➤ 07180495	2 AWG (≈ 272/26) / 4c	1.213	30.8	1324	2100	3300
➤ 07180496	1 AWG (≈ 400/26) / 4c	1.390	35.3	1855	3000	3800

Other dimensions and colors are possible on request.

Please mention the required winding length when placing the order.

**Note: Please pay attention to the installation instructions on page N/11**

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# FLEXIBLE SPECIALTY CABLES



## DR 721 P Reeling cable

BRÖCKSKES · D-VIERSEN · DR 721 P 12 G 1,5 mm<sup>2</sup> CE



Marking for DR 721 P 07211215:  
SAB BRÖCKSKES · D-VIERSEN · DR 721 P 12 G 1,5 mm<sup>2</sup> CE

The DR 721 P is used for spring cable and motor cable reels, hoists, transport systems and farm vehicles with medium mechanical stress.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228 EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special polymer
<b>Color code:</b>	colored acc. to HD 308 (VDE 0293 part 308); from 6 conductors black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
<b>Stranding:</b>	specially adjusted layering
<b>Inner jacket:</b>	special PVC
<b>Supporting screen:</b>	high-tech yarn
<b>Jacket material:</b>	PUR
<b>Jacket color:</b>	black

### Outstanding features:

- good winding and unwinding strength
- small outer diameter
- small cable weight
- corresponds to low voltage guideline 73/23/EWG CE

### Technical data:

<b>Nominal voltage:</b>	0.6/1 kV
<b>Testing voltage:</b>	conductor/conductor 4000 V
<b>Current-carrying capacity:</b>	acc. to DIN VDE 0298-4, see page N/18 + 19
<b>Min. bending radius:</b>	
for laying and installation (fixed laying):	6 x O.D.
for repeated winding action (flexible):	10 x O.D.
guided on deflection pulleys: (flexible):	12 x O.D.
<b>Temperature range:</b>	
fixed laying:	-30/+70 °C
flexible:	-30/+70 °C
<b>Temperature resistance of primary insulation:</b>	up to +90 °C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 und EN 60332-1-2
<b>Oil resistance:</b>	very good - TMPU acc. mto DIN VDE 0282 part 10 + HD 22.10
<b>Chemical resistance:</b>	very good against acids, alkaline solutions, solvents and hydraulic liquids, etc.
<b>Weather resistance:</b>	very good
<b>Sunlight resistance:</b>	very good - enhanced due to black jacket color
<b>Tensile strength:</b>	acc. to DIN VDE 0298-3 section 7.1
<b>Mechanical characteristics:</b>	the main mechanical characteristics accomplished by the PUR outer jacket are: - high tensile strength - high tear strength - high abrasion resistance - high notch resistance
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

item no.	dimensions	max. outer-ø ± 5%		cable weight ≈ lbs/mft
		inch	mm	
➤ 07210415	16 AWG (≈ 27-29/30) / 4c	0.346	8.8	83
➤ 07210515	16 AWG (≈ 27-29/30) / 5c	0.378	9.6	99
➤ 07210715	16 AWG (≈ 27-29/30) / 7c	0.461	11.7	144
➤ 07211215	16 AWG (≈ 27-29/30) / 12c	0.646	16.4	240
➤ 07211815	16 AWG (≈ 27-29/30) / 18c	0.642	16.3	299
➤ 07212415	16 AWG (≈ 27-29/30) / 24c	0.772	19.6	401
➤ 07213615	16 AWG (≈ 27-29/30) / 36c	0.870	22.1	557
➤ 07210425	14 AWG (≈ 46/30) / 4c	0.402	10.2	120
➤ 07210525	14 AWG (≈ 46/30) / 5c	0.441	11.2	146
➤ 07210725	14 AWG (≈ 46/30) / 7c	0.535	13.6	208
➤ 07211225	14 AWG (≈ 46/30) / 12c	0.764	19.4	356
➤ 07211825	14 AWG (≈ 46/30) / 18c	0.764	19.4	444
➤ 07212425	14 AWG (≈ 46/30) / 24c	0.929	23.6	599
➤ 07213625	14 AWG (≈ 46/30) / 36c	1.039	26.4	833

item no.	dimensions	max. outer-ø ± 5%		cable weight ≈ lbs/mft
		inch	mm	
➤ 07210440	12 AWG (≈ 52/28) / 4c	0.488	12.4	181
➤ 07210460	10 AWG (≈ 78/28) / 4c	0.567	14.4	257
➤ 07210560	10 AWG (≈ 78/28) / 5c	0.614	15.6	308
➤ 07210470	8 AWG (≈ 77/26) / 4c	0.705	17.9	413
➤ 07210480	6 AWG (≈ 122/26) / 4c	0.882	22.4	638
➤ 07210580	6 AWG (≈ 122/26) / 5c	0.984	25.0	788
➤ 07210390	4 AWG (≈ 190/26) / 3c + 10 AWG (≈ 78/28) / 3c	0.953	24.2	823
➤ 07210395	2 AWG (≈ 272/26) / 3c + 10 AWG (≈ 78/28) / 3c	1.102	28.0	1095
➤ 07210396	1 AWG (≈ 400/26) / 3c + 8 AWG (≈ 77/26) / 3c	1.252	31.8	1568

Other dimensions and colors are possible on request.

Please mention the required winding length when placing the order.

**Note: Please pay attention to the installation instructions on page N/11**

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Web site: [www.sabcable.com](http://www.sabcable.com)

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# FLEXIBLE SPECIALTY CABLES

## DR 720 P Highflex PUR reeling cable



Marking for DR 720 P Highflex 07201215:  
SAB BRÖCKSKES · D-VIERSEN · DR 720 P Highflex 12 G 1,5 mm² CE

The DR 720 P Highflex is used for heavy appliances as for example motor cable reels hoists, transport systems, movable motors and farm vehicles with high mechanical stress.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228 EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special polymer
<b>Color code:</b>	colored acc. to HD 308 (VDE 0293 part 308); from 6 conductors black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
<b>Stranding:</b>	specially adjusted layering around a central suspension unit
<b>Inner jacket:</b>	PUR
<b>Supporting screen:</b>	high-tech yarn
<b>Jacket material:</b>	PUR
<b>Jacket color:</b>	black

### Outstanding features:

- ▶ path feed rate up to 120 m/min.
- ▶ high winding and unwinding strength
- ▶ small outer diameter
- ▶ small cable weight
- ▶ corresponds to low voltage guideline 73/23/EWG CE

### Technical data:

<b>Nominal voltage:</b>	0.6/1 kV
<b>Testing voltage:</b>	conductor/conductor 4000 V
<b>Current-carrying capacity:</b>	acc. to DIN VDE 0298-4, see page N/18 + 19
<b>Min. bending radius:</b>	
for laying and installation (fixed laying):	≤ 12 mm 3 x O.D. / >12 mm 4 x O.D.
for repeated winding action (flexible):	6 x O.D.
guided on deflection pulleys (flexible):	7,5 x O.D.
<b>Temperature range</b>	
fixed laying:	-50/+90 °C
flexible application:	-40/+90 °C
<b>Zero halogen:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chemical resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids, etc.
<b>Weather resistance:</b>	very good
<b>Sunlight resistance:</b>	very good - enhanced due to black jacket color
<b>Tensile strength:</b>	DIN VDE 0298-3 section 7.1
<b>Mechanical characteristics:</b>	the main mechanical characteristics accomplished by the PUR outer jacket are: - high tensile strength - high tear strength - high abrasion resistance - high notch resistance
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

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item no.	dimensions	max. outer- $\varnothing$ $\pm$ 5% inch mm	cable weight $\approx$ lbs/mft	min breaking load of suspension unit N
▶ 07200415	16 AWG ( $\approx$ 27-29/30) / 4c	0.354 9.0	80	1340
▶ 07200515	16 AWG ( $\approx$ 27-29/30) / 5c	0.386 9.8	95	1690
▶ 07200715	16 AWG ( $\approx$ 27-29/30) / 7c	0.465 11.8	137	2150
▶ 07201215	16 AWG ( $\approx$ 27-29/30) / 12c	0.654 16.6	241	2600
▶ 07201815	16 AWG ( $\approx$ 27-29/30) / 18c	0.646 16.4	289	2600
▶ 07200425	14 AWG ( $\approx$ 46/30) / 4c	0.409 10.4	114	1345
▶ 07200525	14 AWG ( $\approx$ 46/30) / 5c	0.457 11.6	143	2100
▶ 07201225	14 AWG ( $\approx$ 46/30) / 12c	0.772 19.6	357	2900
▶ 07201825	14 AWG ( $\approx$ 46/30) / 18c	0.776 19.7	431	3450
▶ 07202425	14 AWG ( $\approx$ 46/30) / 24c	0.937 23.8	591	2700
▶ 07203025	14 AWG ( $\approx$ 46/30) / 30c	1.047 26.6	739	4200
▶ 07205025	14 AWG ( $\approx$ 46/30) / 50c	1.276 32.4	1169	6750
▶ 07200440	12 AWG ( $\approx$ 52/28) / 4c	0.488 12.4	171	1690
▶ 07201240	12 AWG ( $\approx$ 52/28) / 12c	0.945 24.0	561	5000

item no.	dimensions	max. outer- $\varnothing$ $\pm$ 5% inch mm	cable weight $\approx$ lbs/mft	min breaking load of suspension unit N
▶ 07200460	10 AWG ( $\approx$ 78/28) / 4c	0.583 14.8	248	1860
▶ 07200470	8 AWG ( $\approx$ 77/26) / 4c	0.717 18.2	398	2300
▶ 07200480	6 AWG ( $\approx$ 122/26) / 4c	0.894 22.7	615	2800
▶ 07200390	4 AWG ( $\approx$ 190/26) / 3c + 10 AWG ( $\approx$ 78/28) / 3c	0.957 24.3	798	3300
▶ 07200490	4 AWG ( $\approx$ 190/26) / 4c	1.059 26.9	908	3300
▶ 07200395	2 AWG ( $\approx$ 272/26) / 3c + 10 AWG ( $\approx$ 78/28) / 3c	1.106 28.1	1060	3300
▶ 07200495	2 AWG ( $\approx$ 272/26) / 4c	1.240 31.5	1272	3300
▶ 07200396	1 AWG ( $\approx$ 400/26) / 3c + 8 AWG ( $\approx$ 77/26) / 3c	1.256 31.9	1521	3800

Other dimensions and colors are possible on request.

Please mention the required winding length when placing the order.

**Note: Please pay attention to the installation instructions on page N/11**

E-mail: [info@sabcable.com](mailto:info@sabcable.com)



Web site: [www.sabcable.com](http://www.sabcable.com)

# FLEXIBLE SPECIALTY CABLES

## Spreader 722 PUR control cable for basket operation

BRÖCKSKES · D-VIERSEN · Spreader 722 42 x 2,5 mm<sup>2</sup> CE



Marking for Spreader 722 07224225:  
SAB BRÖCKSKES · D-VIERSEN · Spreader 722 42 x 2,5 mm<sup>2</sup> CE

The Spreader 722 is used for load-lift equipment, e.g. spreader with high mechanical stress in gravity-fed vertical basket operation.

### Construction:

<b>Conductor:</b>	bare copper strands
<b>Insulation:</b>	PVC
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334 and green-yellow earth wire from 3 conductors
<b>Suspension unit:</b>	armored braided with lead, 50 m of the suspended cable are supported by a 5 times safety calculation
<b>Stranding:</b>	conductors are twisted to bundles with lead cord in the centre
<b>Wrapping:</b>	overlapping non-woven tape
<b>Stranding:</b>	bundle and lead cords twisted, suspension unit in the centre
<b>Wrapping:</b>	overlapping non-woven tape
<b>Jacket material:</b>	PUR
<b>Jacket color:</b>	black

### Outstanding features:

- ▶ for basket applications
- ▶ high breaking load of supporting unit
- ▶ oil resistant
- ▶ weather resistant

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	conductor/conductor 2000 V
<b>Current-carrying capacity:</b>	acc. to DIN VDE 0298-4, see page N/18 + 19
<b>Temperature range:</b>	
<i>fixed laying:</i>	-30/+70 °C
<i>flexible:</i>	-30/+70 °C
<b>Tensile load:</b>	max. 15 N/mm <sup>2</sup> x sum of all cable sections
<b>Recommended cage dimensions:</b>	cage diameter min. 30 x O.D., cage height approx. 45 x O.D.
<b>Travel speed hoisting gear:</b>	max. 160 m/min.
<b>Oil resistance:</b>	very good - TMPU acc. mto DIN VDE 0282 part 10 + HD 22.10
<b>Weather resistance:</b>	appropriate for applications in dry, damp and wet rooms as well as in the open-air with a very good resistance against ozone, UV radiation and humidity

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item no.	no. of conductors incl. ground	nominal outer- $\phi$ inch	mm	cable weight $\approx$ lbs/mft
<b>▶ 18 AWG (<math>\approx</math> 56/34) • 1.00 mm<sup>2</sup></b>				
07224810	48	1.264	32.1	1311
<b>▶ 14 AWG (<math>\approx</math> 140/34) • 2.50 mm<sup>2</sup></b>				
07222425	24	1.169	29.7	1116
07223025	30	1.295	32.9	1355
07223625	36	1.425	36.2	1725
07224225	42	1.543	39.2	2135
07224825	48	1.650	41.9	2390
<b>▶ 12 AWG (<math>\approx</math> 224/34) • 4.00 mm<sup>2</sup></b>				
07222035	20	1.217	30.9	1157
07222435	24	1.307	33.2	1393
07223035	30	1.457	37.0	1724
07223635	36	1.583	40.2	2162

Other dimensions and colors are possible on request.

E-mail: [info@sabcable.com](mailto:info@sabcable.com)



Web site: [www.sabcable.com](http://www.sabcable.com)

# FLEXIBLE SPECIALTY CABLES

## Festoon 715 P PUR cable for flexible application in festoon systems



Marking for Festoon 715 P 07150162:  
SAB BRÖCKSKES · D-VIERSEN · Festoon 715 P 1 x 16.0 mm² CE



Marking for Festoon 715 P 07151825:  
SAB BRÖCKSKES · D-VIERSEN · Festoon 715 P 18 x 2,5 mm² CE

The Festoon 715 P cable is applied for high mechanical stress. It is particularly suitable for use in cable roller assemblies.

### 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>	single conductor black; from 2 conductors colored acc. to HD 308 (VDE 0293 part 308); from 6 conductors black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
<b>Stranding:</b>	specially adjusted layering around a central suspension unit
<b>Wrapping:</b>	non-woven tape
<b>Jacket material:</b>	PUR
<b>Jacket color:</b>	black

### Outstanding features:

- ▶ halogen-free
- ▶ high abrasion resistance
- ▶ small outer diameter
- ▶ Path feet rate in cable roller assemblies up to 240 m/min.

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 0.6/1 kV
<b>Testing voltage:</b>	4000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Current-carrying capacity:</b>	acc. to DIN VDE 0298-4, see page N/18 + 19
<b>Min. bending radius:</b>	6 x O.D.
<b>Continuous tensile load:</b>	max. 15 N/mm <sup>2</sup> acc. to DIN VDE 0298 part 3 section 7.1
<b>Temperature range</b>	
fixed laying:	-50/+90 °C
flexible application:	-40/+90 °C
<b>Zero halogen:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chemical resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids, etc.
<b>Continuous flexibility:</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/28



item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
<b>▶ 16 AWG (≈ 27-29/30) • 1.50 mm<sup>2</sup></b>				
07150315	3	0.287	7.3	51
07150415	4	0.311	7.9	63
07150515	5	0.339	8.6	78
07150715	7	0.402	10.2	112
07151215	12	0.496	12.6	165
07151815	18	0.591	15.0	248
07152415	24	0.697	17.7	321
07153015	30	0.744	18.9	392
<b>▶ 14 AWG (≈ 46/30) • 2.50 mm<sup>2</sup></b>				
07150325	3	0.327	8.3	73
07150425	4	0.366	9.3	94
07150525	5	0.398	10.1	117
07150725	7	0.476	12.1	169
07151225	12	0.591	15.0	255
07151825	18	0.689	17.5	374
07152425	24	0.831	21.1	492
07153025	30	0.878	22.3	597
<b>▶ 12 AWG (≈ 52/28) • 4.00 mm<sup>2</sup></b>				
07150440	4	0.429	10.9	140

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
<b>▶ 10 AWG (≈ 78/28) • 6.00 mm<sup>2</sup></b>				
07150460	4	0.504	12.8	202
<b>▶ 8 AWG (≈ 77/26) • 10.00 mm<sup>2</sup></b>				
07150461	4	0.650	16.5	334
07150561	5	0.717	18.2	414
<b>▶ 6 AWG (≈ 122/26) • 16.00 mm<sup>2</sup></b>				
07150162	1	0.343	8.7	120
07150462	4	0.815	20.7	517
07150562	5	0.909	23.1	656
<b>▶ 4 AWG (≈ 190/26) • 25.00 mm<sup>2</sup></b>				
07150163	1	0.413	10.5	183
07150463	4	0.957	24.3	756
07150563	5	1.067	27.1	964
<b>▶ 2 AWG (≈ 272/26) • 35.00 mm<sup>2</sup></b>				
07150164	1	0.476	12.1	253
07150464	4	1.122	28.5	1065
<b>▶ 1 AWG (≈ 400/26) • 50.00 mm<sup>2</sup></b>				
07150165	1	0.531	13.5	359
07150465	4	1.264	32.1	1500

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
<b>▶ 2/0 AWG (≈ 543/26) • 70.00 mm<sup>2</sup></b>				
07150166	1	0.622	15.8	478
<b>▶ 3/0 AWG (≈ 484/24) • 95.00 mm<sup>2</sup></b>				
07150167	1	0.736	18.7	665
<b>▶ 4/0 AWG (≈ 589/24) • 120.00 mm<sup>2</sup></b>				
07150168	1	0.803	20.4	798
<b>▶ 250 MCM (≈ 740/24) • 150.00 mm<sup>2</sup></b>				
07150169	1	0.878	22.3	996
<b>▶ 350 MCM (≈ 902/24) • 185.00 mm<sup>2</sup></b>				
07150170	1	0.945	24.0	1197
<b>▶ 450 MCM (≈ 1220/24) • 240.00 mm<sup>2</sup></b>				
07150171	1	1.106	28.1	1621
<b>▶ 10 AWG (≈ 78/28) x 18 AWG (≈ 30/32) 6.00 mm<sup>2</sup> x 1.00 mm<sup>2</sup></b>				
0715 . . . . .	3 + 3	0.469	11.9	184
<b>▶ 1 AWG (≈ 400/26) x 8 AWG (≈ 77/26) 50.00 mm<sup>2</sup> x 10.00 mm<sup>2</sup></b>				
0715 . . . . .	3 + 3	1.142	29.0	1333

Other dimensions and colors are possible on request.

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# FLEXIBLE SPECIALTY CABLES



## MR 460 PUR control cable with fibre-reinforced sheath

D-VIERSEN · MR 460 12 x 0,75 mm<sup>2</sup> 34601207 CE



Marking for MR 460 34601207:

SAB BRÖCKKES · D-VIERSEN · MR 460 12 x 0,75 mm<sup>2</sup> 34601207 CE

The MR 460 cable is applied for unprotected usage with high mechanical stress e.g. in the forest and agriculture industry.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228 EN 60228, VDE 0295, class 6
<b>Insulation:</b>	TPE
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334 and green-yellow earth wire from 3 conductors
<b>Stranding:</b>	specialy adjusted layering
<b>Wrapping:</b>	non-woven tape
<b>Supporting screen:</b>	high-tech yarn
<b>Jacket material:</b>	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Jacket color:</b>	black

### Outstanding features:

- ▶ halogen-free
- ▶ reinforced outer sheath for high mechanical stress
- ▶ notch resistant abrasion resistant
- ▶ good flexibility also at low temperatures
- ▶ weather resistant
- ▶ oil resistance
- ▶ good chemical resistance
- ▶ sunlight resistance

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	2000 V
<b>Min. bending radius</b>	
fixed laying:	5 x O.D.
flexible application:	10 x O.D.
<b>Temperature range</b>	
fixed laying:	-50/+90 °C
flexible application:	-40/+90 °C
<b>Zero halogen:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chemical resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids, etc.
<b>UV-resistance:</b>	very good - enhanced due to black sheath color
<b>Mechanical characteristics:</b>	the main mechanical characteristics accomplished by the PUR outer sheath are: - high tensile strength - high tear strength - high abrasion resistance - high notch resistance - high transverse strength
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 28/34) • 0.50 mm <sup>2</sup>				
84600305	3	0.252	6.4	34
84600405	4	0.264	6.7	38
84600505	5	0.287	7.3	44
84600705	7	0.323	8.2	59
84601205	12	0.386	9.8	86
84601805	18	0.441	11.2	118
84602505	25	0.520	13.2	157
▶ 19 AWG (≈ 42/34) • 0.75 mm <sup>2</sup>				
84600307	3	0.276	7.0	42
84600407	4	0.291	7.4	48
84600507	5	0.315	8.0	59
84600707	7	0.354	9.0	74
84601207	12	0.429	10.9	106
84601807	18	0.508	12.9	159
84602507	25	0.598	15.2	217

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 18 AWG (≈ 56/34) • 1.00 mm <sup>2</sup>				
84600310	3	0.291	7.4	48
84600410	4	0.311	7.9	60
84600510	5	0.335	8.5	70
84600710	7	0.390	9.9	92
84601210	12	0.469	11.9	141
84601810	18	0.535	13.6	190
84602510	25	0.654	16.6	274
▶ 16 AWG (≈ 84/34) • 1.50 mm <sup>2</sup>				
84600315	3	0.315	8.0	65
84600415	4	0.339	8.6	76
84600515	5	0.366	9.3	89
84600715	7	0.429	10.9	138
84601215	12	0.516	13.1	186
84601815	18	0.610	15.5	271
84602515	25	0.724	18.4	364

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 14 AWG (≈ 140/34) • 2.50 mm <sup>2</sup>				
84600325	3	0.386	9.8	94
84600425	4	0.413	10.5	114
84600525	5	0.453	11.5	138
84600725	7	0.531	13.5	184
84601225	12	0.657	16.7	300
84601825	18	0.764	19.4	444
84602525	25	0.921	23.4	583

Other dimensions and colors are possible on request.

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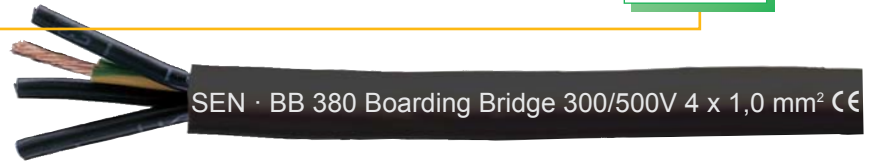


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# FLEXIBLE SPECIALTY CABLES

## BB 380 Boarding Bridge Cables for the flexible application in passenger bridges



Marking for BB 380 Boarding Bridge 53800410:  
SAB BRÖCKSKES · D-VIERSEN · BB 380 Boarding Bridge 300/500V 4 x 1,0 mm² CE

The BB 380 Boarding Bridge cable is designed for flexible use in passenger bridges. In addition to halogen-free this cables has further advantages: With features such as oil resistance, weather resistance and UV resistance, the BB 380 Boarding Bridge is ideal suitable for use in passenger boarding bridges.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special 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>	non-woven tape
<b>Jacket material:</b>	PUR
<b>Jacket color:</b>	black

### Outstanding features:

- halogen-free
- oil resistant
- weather resistant
- sunlight resistant

### Technical data:

<b>Nominal voltage:</b>	up to AWG 18: U <sub>o</sub> /U 300/500V from AWG 16: U <sub>o</sub> /U 0,6/1 kV
<b>Testing voltage U:</b>	300/500V: 3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 0,6/1 kV: 4000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b> <i>fixed laying:</i>	4 x O.D.
<i>flexible application:</i>	7,5 x O.D.
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b> <i>static:</i>	-40/+90°C
<i>flexing:</i>	-30/+90°C
<b>Zero halogen:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chemical resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids, etc.
<b>UV-resistance:</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/28

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#### 300/500 V

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
<b>▶ 20 AWG (≈ 16/32) • 0.50 mm<sup>2</sup></b>				
53800205	2	0.201	5.1	20
53800305	3	0.213	5.4	26
53800405	4	0.228	5.8	31
53800505	5	0.248	6.3	37
53800705	7	0.287	7.3	50
53801205	12	0.358	9.1	78
<b>▶ 19 AWG (≈ 23/32) • 0.75 mm<sup>2</sup></b>				
53800207	2	0.224	5.7	26
53800307	3	0.236	6.0	33
53800407	4	0.256	6.5	40
53800507	5	0.280	7.1	49
53800707	7	0.327	8.3	67
53801207	12	0.406	10.3	107
<b>▶ 18 AWG (≈ 30/32) • 1.00 mm<sup>2</sup></b>				
53800210	2	0.232	5.9	30
53800310	3	0.244	6.2	38
53800410	4	0.264	6.7	47
53800510	5	0.291	7.4	58
53800710	7	0.339	8.6	78
53801210	12	0.421	10.7	126

#### 0.6/1 kV

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
<b>▶ 16 AWG (≈ 27-29/30) • 1.50 mm<sup>2</sup></b>				
53800215	2	0.319	8.1	52
53800315	3	0.339	8.6	67
53800415	4	0.374	9.5	85
53800515	5	0.409	10.4	103
<b>▶ 14 AWG (≈ 46/30) • 2.50 mm<sup>2</sup></b>				
53800225	2	0.374	9.5	75
53800325	3	0.394	10.0	98
53800425	4	0.429	10.9	120
53800525	5	0.480	12.2	151
<b>▶ 12 AWG (≈ 52/28) • 4.00 mm<sup>2</sup></b>				
53800240	2	0.421	10.7	102
53800340	3	0.453	11.5	136
53800440	4	0.496	12.6	171
53800540	5	0.559	14.2	216

#### 0.6/1 kV

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
<b>▶ 10 AWG (≈ 78/28) • 6.00 mm<sup>2</sup></b>				
53800260	2	0.469	11.9	136
53800360	3	0.496	12.6	179
53800460	4	0.559	14.2	234
53800560	5	0.614	15.6	286
<b>▶ 8 AWG (≈ 77/26) • 10.00 mm<sup>2</sup></b>				
53800261	2	0.626	15.9	222
53800361	3	0.661	16.8	303
53800461	4	0.732	18.6	380
53800561	5	0.815	20.7	475

Other dimensions and colors are possible on request.



**For installation in passenger bridges!**  
**Screened version on request!**

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Web site: [www.sabcable.com](http://www.sabcable.com)

torsion/twisting angle  
up to  $\pm 450^\circ$   
per 19.685 inches



# FLEXIBLE SPECIALTY CABLES

## SAB<sub>clean</sub> RT 123 D TP (B) Clean Room Torsion Cable

300V CSA AWM I/II A/B 80°C 300V FT1 FT2 37939001 CE



Marking for SAB<sub>clean</sub> RT 123 D TP (B) 37939001:

SAB BRÖCKSKES · D-VIERSEN · SAB<sub>clean</sub> RT 123 D TP (B) AWM Style 20233 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 37939001 CE

This 300 V UL recognized, CSA approved cable is rated for 80°C and used in applications where combined twisting and bending stresses occur. This unique cable accurately transmits control signals and power supply to welding robots, rotary tables and other automated applications. The high quality UL recognized, CSA approved insulation with its smooth surface and slide wrapping increases cable life expectancy under extreme twisting and bending stresses. The outer jacket made of specially formulated TPE is highly resistant to abrasion, oil, notching microbes and hydrolysis. In addition, the surface quality prevents adhesion to adjacently installed cables. The overall bare copper spiral shield is recommended whenever electrical interference distorts signal transmission or when EMI emission needs to be suppressed.

### Construction:

<b>Conductor:</b>	bare copper strands, extra fine wires acc. to VDE 0812
<b>Insulation:</b>	TPE 531
<b>Colour code:</b>	color code US 2 see N/25
<b>Stranding:</b>	conductors twisted to pairs, specially adjusted layering
<b>Wrapping:</b>	non-woven tape
<b>Screen:</b>	wrapped with bare copper wires
<b>Drain wire:</b>	bare copper strands, extra fine wires 0,34 mm <sup>2</sup>
<b>Wrapping:</b>	non-woven tape
<b>Jacket material:</b>	TPE 840
<b>Jacket color:</b>	white green

### Technical data:

<b>Peak operating voltage:</b>	<b>DIN VDE</b> max. 350 V <b>UL/CSA</b> 300 V
<b>Testing voltage:</b>	conductor/conductor 1500 V conductor/screen 1200 V
<b>Torsion angle:</b>	up to $\pm 450^\circ/0.5$ m (tested)
<b>Min. bending radius</b> <i>continuous flexing</i>	7.5 x O.D.
<b>Temperature range</b> <i>static:</i> <i>flexing:</i>	<b>DIN VDE:</b> -50/+70°C <b>UL/CSA:</b> up to +80°C
<b>Clean Room classification:</b>	US Federal Standard Air Cleanliness Class 1 EN ISO 13644-1 Air Cleanliness Class 1
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

### Outstanding features:

- rugged and reliable
- torsion angle up to  $\pm 450^\circ$  per 0.5 m (19.685 inches)

item no.	dimensions	average outer- $\varnothing$		cable weight $\approx$ lbs/mft	DC resistance at 20°C max. $\Omega$ /km
		inch	mm		
➤ 37939001	22 AWG ( $\approx 7/30$ ) / 3pr	0.303	7.7	44	58.0

Other dimensions and colors are possible on request.

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# FLEXIBLE SPECIALTY CABLES

torsion/twisting angle  
up to **± 360°**  
per 19.685 inches



## SAB<sub>clean</sub> RT 793 D Clean Room Torsion Cables



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

Marking for SAB<sub>clean</sub> RT 793 D 37930415: SAB BRÖCKSKES · D-VIERSEN ·  
4 x 1,5 mm<sup>2</sup> SAB<sub>clean</sub> RT 793 D 16 AWG/4c 37930415 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

This 600 V UL recognized, CSA approved cable is rated for 80°C and used in applications where combined twisting and bending stresses occur. This unique cable accurately transmits control signals and power supply to welding robots, rotary tables and other automated applications. The high quality UL recognized, CSA approved insulation with its smooth surface and slide wrapping increases cable life expectancy under extreme twisting and bending stresses. The outer jacket made of specially formulated TPE is highly resistant to abrasion, oil, notching microbes and hydrolysis. In addition, the surface quality prevents adhesion to adjacently installed cables. The overall bare copper spiral shield is recommended whenever electrical interference distorts signal transmission or when EMI emission needs to be suppressed.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	TPE 510
<b>Colour code:</b>	black conductors with consecutive white numbers and green-yellow earth
<b>Stranding:</b>	conductors twisted with specially adjusted layering
<b>Wrapping:</b>	non-woven tape
<b>Screen:</b>	wrapped with bare copper wires
<b>Wrapping:</b>	non-woven tape
<b>Jacket material:</b>	TPE 840
<b>Jacket color:</b>	white green

### Technical data:

<b>Peak operating voltage:</b>	<b>DIN VDE</b> 300/500 V <b>UL/CSA</b> 600 V
<b>Testing voltage:</b>	conductor/conductor 3000 V conductor/screen 2000 V
<b>Torsion angle:</b>	up to ± 360°/0.5 m (tested)
<b>Min. bending radius</b> <i>continuous flexing</i>	7.5 x O.D.
<b>Temperature range</b> <i>static:</i> <i>flexing:</i>	<b>DIN VDE:</b> -50/+70°C <b>UL/CSA:</b> up to +80°C -40/+70°C
<b>Clean Room classification:</b>	US Federal Standard Air Cleanliness Class 1 EN ISO 13644-1 Air Cleanliness Class 1
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

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### Outstanding features:

- rugged and reliable
- torsion angle up to ± 360° per 0.5 m (19.685 inches)

item no.	dimensions	average outer-Ø		cable weight ≈ lbs/mft	DC resistance at 20°C max. Ω/km
		inch	mm		
▶ 37930415	16 AWG (≈ 84/34) / 4c	0.378	6.9	94	13.3
▶ 37930425	14 AWG (≈ 140/34) / 4c	0.433	11.0	125	7.98

Other dimensions and colors are possible on request.

E-mail: [info@sabcable.com](mailto:info@sabcable.com)



Web site: [www.sabcable.com](http://www.sabcable.com)

torsion/twisting angle  
up to  $\pm 360^\circ$   
per 19.685 inches

RoHS

# FLEXIBLE SPECIALTY CABLES

## SAB<sub>clean</sub> RT 795 D Clean Room Torsion Cables

60 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE



Marking for SAB<sub>clean</sub> RT 795 D 37951404: SAB BRÖCKSKES · D-VIERSEN ·

37950425 4 x 2,5 mm<sup>2</sup> SAB<sub>clean</sub> RT 795 D 14 AWG/4c 37951404 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

This 600 V UL recognized, CSA approved cable is rated for 80°C and used in applications where combined twisting and bending stresses occur. This unique cable accurately transmits control signals and power supply to welding robots, rotary tables and other automated applications. The high quality UL recognized, CSA approved insulation with its smooth surface and slide wrapping increases cable life expectancy under extreme twisting and bending stresses. The outer jacket made of specially formulated TPE is highly resistant to abrasion, oil, notching microbes and hydrolysis. In addition, the surface quality prevents adhesion to adjacently installed cables. The overall bare copper spiral shield is recommended whenever electrical interference distorts signal transmission or when EMI emission needs to be suppressed.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	TPE 510
<b>Colour code:</b>	black conductors with consecutive white numbers and green-yellow earth
<b>Stranding:</b>	conductors twisted with specially adjusted layering
<b>Wrapping:</b>	nettig-tape
<b>Wrapping:</b>	non-woven tape
<b>Screen:</b>	wrapped with bare copper wires
<b>Wrapping:</b>	non-woven tape
<b>Jacket material:</b>	TPE 800
<b>Jacket color:</b>	white green

### Technical data:

<b>Peak operating voltage:</b>	<b>DIN VDE</b> 300/500 V <b>UL/CSA</b> 600 V
<b>Testing voltage:</b>	conductor/conductor 3000 V conductor/screen 2000 V
<b>Torsion angle:</b>	up to $\pm 360^\circ/0.5$ m (tested)
<b>Min. bending radius</b> <i>continuous flexing</i>	7.5 x O.D.
<b>Temperature range</b> <i>static:</i> <i>flexing:</i>	<b>DIN VDE:</b> -50/+70°C <b>UL/CSA:</b> up to +80°C -40/+70°C
<b>Clean Room classification:</b>	US Federal Standard Air Cleanliness Class 1 EN ISO 13644-1 Air Cleanliness Class 2
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

### Outstanding features:

- rugged and reliable
- torsion angle up to  $\pm 360^\circ$  per 0.5 m (19.685 inches)

item no.	dimensions	average outer- $\emptyset$		cable weight $\approx$ lbs/mft	DC resistance at 20°C max. $\Omega$ /km
		inch	mm		

➤ 37951404 14 AWG ( $\approx 140/34$ ) / 4c 0.433 11.0 122 7.98

Other dimensions and colors are possible on request.

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E-mail: [info@sabcable.com](mailto:info@sabcable.com)



Web site: [www.sabcable.com](http://www.sabcable.com)

# FLEXIBLE SPECIALTY CABLES

## SAB helix cables

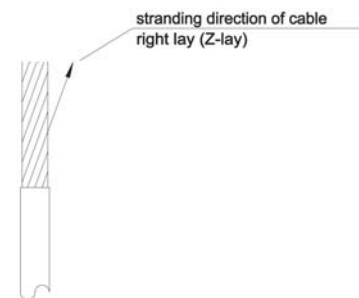
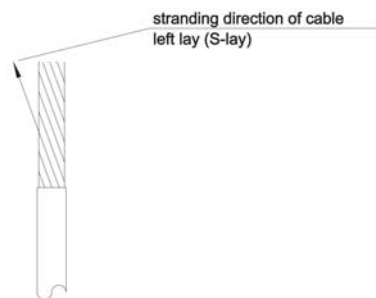
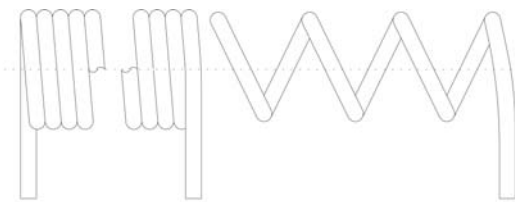
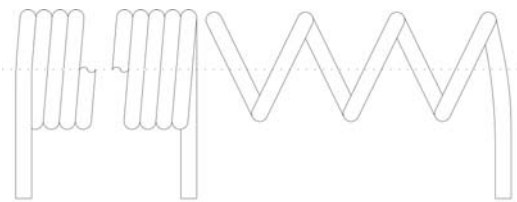


- By a special method cables can be transferred from their straight form to a curling form. According to the application the cable can be adjusted to your demands and specifications.
- It is possible to make helix cables of both, PVC as well as PUR sheathed cables. You can also buy screened helix cables from us.
- PVC helix cables can be used as extension or connection cables. These cost saving cables are used if there is no continuous restoring force demanded, e.g. for lamps or electrical appliances ...
- PUR helix cables are used for very high requests on the quality of the cable. The pull-off length of these cables is approximately 4:1 and they have a good restoring force as well. For this reason these cables are used e.g. material handling appliances, in machines, on gates ...
- The helical direction is dependent on the stranding direction of a cable.

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Helical direction ⇒ left (counter-clockwise)

Helical direction ⇒ right (clockwise)



- You can send us an inquiry for helix cables using the form shown on the next page.

# FLEXIBLE SPECIALTY CABLES

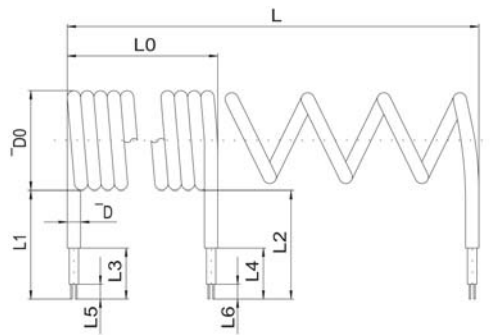
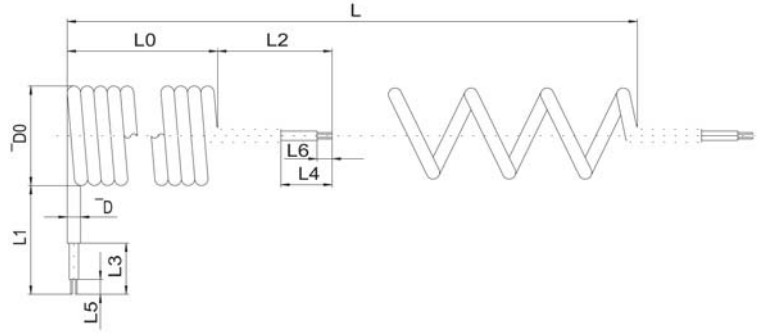
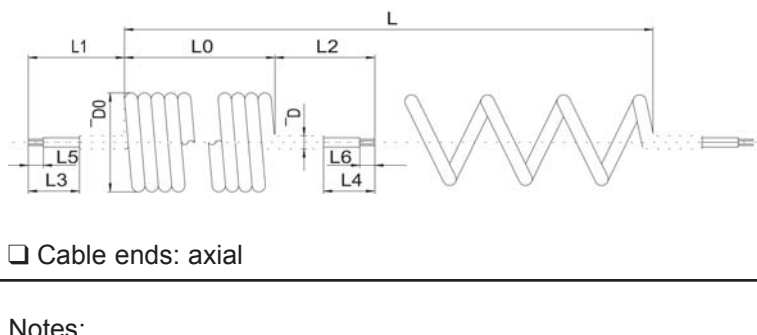
## Construction details for helix cables

to **SAB North America**

Fax: 973-276-1515 • Toll Free: 1-866-722-2974 • Phone: 973-276-0500

Company/Name: \_\_\_\_\_

Please calculate a non-binding offer based on the following data:

 <p><input type="checkbox"/> Cable ends: radial</p>	<p>L = _____ mm</p> <p>L0 = _____ mm</p> <p>øD = _____ mm</p> <p>øD0 = _____ mm</p> <p>L1 = _____ mm</p> <p>L2 = _____ mm</p> <p>L3 = _____ mm</p> <p>L4 = _____ mm</p> <p>L5 = _____ mm</p> <p>L6 = _____ mm</p> <p>Quantity: _____</p> <p>Application (type of installation): _____</p> <p>_____</p> <p>Helical direction: _____</p> <p>Standard cable (item no.): _____</p> <p>Insulation material (conductor): _____</p> <p>Screening: <input type="checkbox"/> yes <input type="checkbox"/> no</p> <p>Insulation material (jacket): _____</p> <p>No. of conductors: _____</p> <p>Cross section: _____</p>
 <p><input type="checkbox"/> Cable ends: radial and axial</p>	
 <p><input type="checkbox"/> Cable ends: axial</p> <p>Notes: _____</p> <p>_____</p> <p>_____</p>	

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