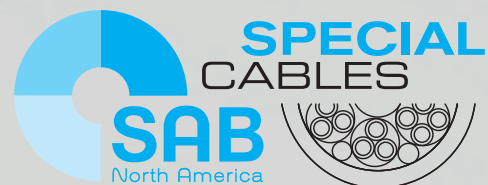


SABIX® ULTRA

CONTINUOUS FLEX CABLE WITH HIGHEST FIRE PROTECTION



www.sabcable.com
866-722-2974 ■ info@sabcable.com



Continuous Flex Cable with Highest Fire Protection

About Us

SAB North America is a focused supplier for the automation, aerospace, medical, high temperature, and robotics industries, providing cable and thermocouple solutions that meet, exceed, and set new standards in the flexible cable market. In addition to flexible cable products, we offer an extensive inventory of high-quality cable accessories, including cord grips, grounding glands and other accessories that complement our flexible control and automation cables.

Whatever the need may be, look to SAB North America for Special Cables that can, for example, help minimize maintenance costs and increase productivity, reduce downtime, and solve specific problems. Here is a small sample of some of the challenges that Special Cables from SAB North America can help address:

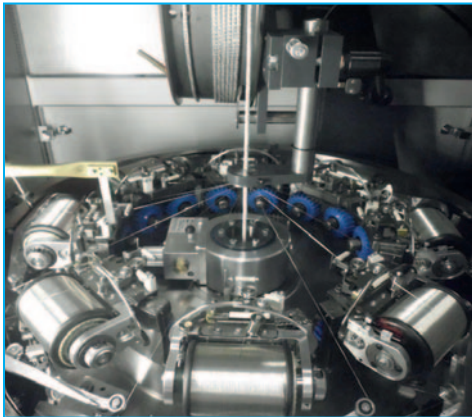
- Hybrid designs for multiple functions
- Harsh environments
- Difficult applications
- Industry-specific requirements



SABIX® halogen-free cables offer low smoke generation, low toxicity and low corrosiveness for applications with high safety requirements. SABIX® Ultra cables provide all of this plus improved fire protection. SABIX® cables are suitable for continuous flexing applications in cable track

Whether you're a valued distribution partner, a manufacturer, an automation house, an integrator, or a contractor, rest assured that our cables are reliable to maximize production efficiencies. SAB brings world class performance & 75 years of ingenuity to the table.

SAB's level of speed and service as a supplier is unmatched. SAB lives up to its name in not only flexible cable but also flexible manufacturing.



SAB Advantage...We make it Easy

- Engineering & technical assistance
- Cut to length with no cut charges
- Prepaid freight within US for orders over \$2,500
- Specialty cable designs (1500 ft minimum)
- No minimum on orders from stock
- Free drop shipments (no surcharges)
- 24-hour shipments from stock
- Cord Grips for securing and grounding cables

Continuous Flex Cable with Highest Fire Protection

Selection table



		6	7	8	9	10	
		Cable Type	SABIX® SD 705 FRNC C1	SABIX® SD 710 FRNC C1	SABIX® SD 715 FRNC C1	SABIX® SD 712 FRNC C1	SABIX® SD 745 FRNC C1 TP
Construction	Data cable	●					●
	Control cable		●			●	
	Shielded				●	●	●
	Twisted pairs						●
Temperature range fixed installation*	+ 90 °C						
	- 40 °C						
Voltage Range	Peak operating voltage < 0.25 mm ² = max. 350 V ≥ 0.25 mm ² = max. 500 V	●			●		●
	Nominal voltage U ₀ /U 0.6/1 kV		●			●	
	Testing voltage 1500 V	●			●		●
	Testing voltage 4000 V		●			●	
Standards	Halogen-free acc. to IEC 60754-1 + VDE 0482-754-1	●	●	●	●	●	●
	Fire performance: No flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 cat. C resp. D	●	●	●	●	●	●
	Flame retardant and self-extinguishing acc. to IEC 60332-1-2, VDE 0482-332-1-2 + NF C 32-070 C1	●	●	●	●	●	●
	Corrosiveness of conflagration gases: In compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases	●	●	●	●	●	●
	Smoke density acc. to IEC 61034 + VDE 0482-1034	●	●	●	●	●	●
	Toxicity acc. to NF X 70-100	●	●	●	●	●	●
	Oil and fuel resistance acc. to EN 50264-1 + VDE 0260-264-1	●	●	●	●	●	●



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

SABIX[®] Ultra

Fire protection has never been so flexible

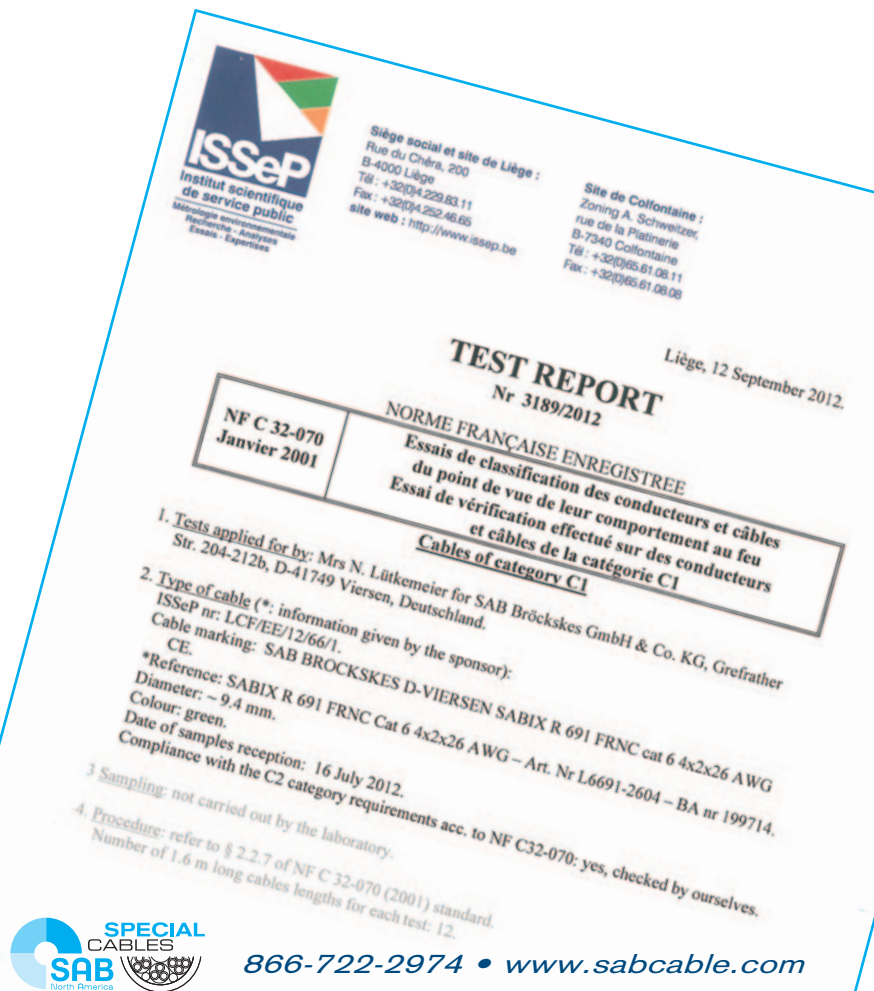
- ✓ fire protection
- ✓ halogen-free
- ✓ flexibility
- ✓ oil resistance
- ✓ low smoke

These are the characteristics of our SABIX[®] Ultra product range. Due to the jacket material the cable can be used for flexible applications and shows the highest fire protection features such as IEC 60332-3 Cat. C resp. D respectively the French standard NF C 32-070 C1.

The cables are used for example as festoon cable for polar cranes in nuclear power plants. In rail technology, these cables are used as a sensor cable or as flexible control cable at the train doors. Due to the very good oil and fuel resistance, these cables can be used in industrial environments. SABIX[®] Ultra material can be installed in cable track applications with moderate mechanical stress.

Standards:

- IEC 60332-1-2
- IEC 60332-3 Cat. C resp. D
- IEC 60754-1 (halogen-free)
- IEC 60754-2 (corrosivity of gases)
- IEC 61034 (smoke density)
- NF C 32-070 C1
(fire performance acc. to French standard)
- NF X 70-100
(toxicity acc. to French standard)



Continuous Flex Cable with Highest Fire Protection

Applications

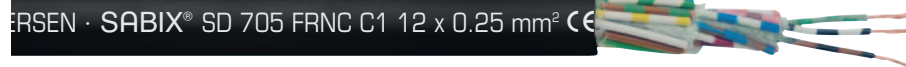


Continuous Flex Cable with Highest Fire Protection



SABIX® SD 705 FRNC C1

Continuous flex halogen-free data cable with extended temperature range and higher fire protection



Marking for SABIX® SD 705 FRNC C1 67051225:

SAB BRÖCKSKES · D-VIERSEN · SABIX® SD 705 FRNC C1 12 x 0.25 mm² CE

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	SABIX®
Color code:	DIN 47100, see below
Stranding:	in layers
Wrapping:	non-woven tape
Jacket material:	SABIX®
Jacket color:	black (RAL 9005)

Outstanding features:

- low smoke halogen-free (LSHF)
- continuous flex
- no flame propagation
- flame retardant and self-extinguishing
- oil and fuel resistant
- good acid and alkalines resistance
- NF C 32-070 C1
- UV resistant jacket

Technical data:

Peak operating voltage:	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
Testing voltage:	conductor/conductor: 1500 V
Min. bending radius:	
fixed installation:	4 x O.D.
flexible application:	6 x O.D.
continuously flexible:	15 x O.D.
Radiation resistance:	1 x 10 ⁷ cJ/kg (100 kGy)
Temperature range:	
static:	-40/+90°C
flexible:	-30/+90°C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Burning characteristics:	no flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 cat. C resp. D Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2 + NF C 32-070 C1
Corrosivity:	in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + VDE 0482-1034
Toxicity:	acc. to EN 50305
Oil and fuel resistance:	acc. to EN 50264-1 + VDE 0260-264-1
UV, ozone and weather resistance:	good
Mycological resistance:	good
Approvals:	CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
▶ 26 AWG (≈ 18/38) - 0.14 mm²				
67050214	2	0.126	3.2	9
67050314	3	0.134	3.4	11
67050514	5	0.154	3.9	16
67050714	7	0.177	4.5	22

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
▶ 24 AWG (≈ 32/38) - 0.25 mm²				
67050225	2	0.138	3.5	12
67050325	3	0.146	3.7	14
67050425	4	0.157	4.0	17
67051025	10	0.240	6.1	40
67051225	12	0.248	6.3	43
67051425	14	0.260	6.6	48
67051825	18	0.287	7.3	60
67052525	25	0.343	8.7	79

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
▶ 22 AWG (≈ 42/38) - 0.34 mm²				
67050234	2	0.161	4.1	16
67050534	5	0.209	5.3	29
67050734	7	0.248	6.3	42
67051034	10	0.287	7.3	51
67052534	25	0.437	11.1	121

Other dimensions and colors are available on request

DIN 47100 color code:

#1- white, #2- brown, #3- green, #4- yellow, #5- gray, #6- pink, #7- blue, #8- red, #9- black, #10- violet, #11- gray-pink, #12- red-blue, #13- white-green, #14- brown-green, #15- white-yellow, #16- yellow-brown, #17- white-gray, #18- gray-brown, #19- white-pink, #20- pink-brown, #21- white-blue, #22- brown-blue, #23- white-red, #24- brown-red, #25- white-black

Continuous Flex Cable with Highest Fire Protection

SABIX® S 710 FRNC C1

Continuous flex halogen-free control cable with extended temperature range and higher fire protection



Marking for SABIX® S 710 FRNC C1 67101215:

SAB BRÖCKSKES · D-VIERSEN · SABIX® S 710 FRNC C1 12 x 1.5 mm² CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 6
Insulation:	SABIX®
Color code:	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
Stranding:	in layers
Wrapping:	non-woven tape
Jacket material:	SABIX®
Jacket color:	black (RAL 9005)

Outstanding features:

- low smoke halogen-free (LSHF)
- continuous flex
- no flame propagation
- flame retardant and self-extinguishing
- oil and fuel resistant
- good acid and alkalines resistance
- NF C 32-070 C1
- UV resistant jacket

Technical data:

Nominal voltage:	Uo/U 0.6/1 kV
Testing voltage:	conductor/conductor: 4000 V
Min. bending radius:	
<i>fixed installation:</i>	4 x O.D.
<i>flexible application:</i>	6 x O.D.
<i>continuous flex:</i>	15 x O.D.
Radiation resistance:	1 x 10 ⁷ cJ/kg (100 kGy)
Temperature range:	
<i>static:</i>	-40/+90°C
<i>flexible:</i>	-30/+90°C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Burning characteristics:	no flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 cat. C resp. D Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2 + NF C 32-070 C1
Corrosivity:	in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + VDE 0482-1034
Toxicity:	acc. to EN 50305
Oil and fuel resistance:	acc. to EN 50264-1 + VDE 0260-264-1
UV, ozone and weather resistance:	good
Mycological resistance:	good
Approvals:	CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
▶ 20 AWG (≈ 16/32) ▪ 0.50 mm²				
67100205	2	0.252	6.4	42
67100505	5	0.323	8.2	65
▶ 19 AWG (≈ 23/32) ▪ 0.75 mm²				
67100507	5	0.354	9.0	81
67100707	7	0.421	10.7	114
▶ 18 AWG (≈ 30/32) ▪ 1.00 mm²				
67100310	3	0.311	7.9	62
67100510	5	0.366	9.3	92
67100710	7	0.437	11.1	130
67101210	12	0.535	13.6	191
67101810	18	0.634	16.1	273

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm²				
67100215	2	0.339	8.6	75
67100315	3	0.362	9.2	85
67100415	4	0.382	9.7	101
67100515	5	0.429	10.9	127
67100715	7	0.516	13.1	185
67101215	12	0.622	15.8	262
67101815	18	0.736	18.7	378
67102415	24	0.858	21.8	484
67102515	25	0.870	22.1	494
▶ 14 AWG (≈ 46/30) ▪ 2.50 mm²				
67100325	3	0.425	10.8	123
67100425	4	0.476	12.1	161
67100525	5	0.531	13.5	198
67100725	7	0.622	15.8	274
67101225	12	0.756	19.2	392

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
▶ 12 AWG (≈ 224/34) ▪ 4.00 mm²				
67100440	4	0.531	13.5	216
▶ 10 AWG (≈ 183/32) ▪ 6.00 mm²				
67100460	4	0.606	15.4	287
▶ 8 AWG (≈ 320/32) ▪ 10.00 mm²				
67100461	4	0.756	19.2	517
▶ 6 AWG (≈ 504/32) ▪ 16.00 mm²				
67100462	4	0.870	22.1	675
▶ 1 AWG (≈ 703/28) ▪ 50.00 mm²				
67100465	4	1.413	35.9	1846

Other dimensions and colors are available on request

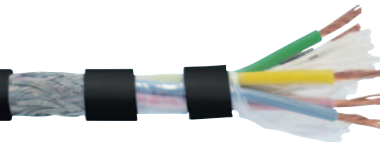
Continuous Flex Cable with Highest Fire Protection

SABIX® SD 715 FRNC C1

Continuous flex halogen-free shielded data cable with extended temperature range and higher fire protection



SABIX® SD 715 C FRNC C1 7 x 0.25 mm² CE



Marking for SABIX® SD 715 C FRNC C1 67150725:

SAB BRÖCKSKES · D-VIERSEN · SABIX® SD 715 C FRNC C1 7 x 0.25 mm² CE

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	SABIX®
Color code:	DIN 47100, see below
Stranding:	in layers
Wrapping:	non-woven tape
Shielding:	tinned copper braiding, optical coverage ≥ 85%
Wrapping:	non-woven tape
Jacket material:	SABIX®
Jacket color:	black (RAL 9005)

Outstanding features:

- low smoke halogen-free (LSHF)
- continuous flex
- good EMC characteristics*
- no flame propagation
- flame retardant and self-extinguishing
- oil and fuel resistant
- good acid and alkalines resistance
- NF C 32-070 C1
- UV resistant jacket

*copper braiding should be connected circularly to optimize the EMC characteristics

Technical data:

Nominal voltage:	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
Testing voltage:	conductor/conductor: 1500 V conductor/shielding: 1200 V
Min. bending radius:	fixed installation: 4 x O.D. flexible application: 6 x O.D. continuous flex: 15 x O.D.
Radiation resistance:	1 x 10 ⁷ cJ/kg (100 kGy)
Temperature range:	static: -40/+90°C flexible: -30/+90°C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Burning characteristics:	no flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 cat. C resp. D. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2 + NF C 32-070 C1
Corrosivity:	in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + VDE 0482-1034
Toxicity:	acc. to EN 50305
Oil and fuel resistance:	acc. to EN 50264-1 + VDE 0260-264-1
UV, ozone and weather resistance:	good
Mycological resistance:	good
Approvals:	CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
▶ 26 AWG (≈ 18/38) ▪ 0.14 mm²				
67150214	2	0.146	3.7	15
67150314	3	0.154	3.9	17
67151214	12	0.272	6.9	46
67151814	18	0.291	7.4	59
67152514	25	0.350	8.9	80
▶ 24 AWG (≈ 32/38) ▪ 0.25 mm²				
67150225	2	0.157	4.0	17
67150425	4	0.177	4.5	24
67150525	5	0.205	5.2	31
67150625	6	0.244	6.2	42
67150725	7	0.260	6.6	48
67150825	8	0.280	7.1	54
67151225	12	0.307	7.8	65
67151825	18	0.378	9.6	103
67152525	25	0.390	9.9	123

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
▶ 22 AWG (≈ 42/38) ▪ 0.34 mm²				
67150434	4	0.213	5.4	32
67150534	5	0.244	6.2	42
67150734	7	0.276	7.0	54
67151234	12	0.335	8.5	79
▶ 20 AWG (≈ 16/32) ▪ 0.50 mm²				
67150205	2	0.205	5.2	29
67150405	4	0.240	6.1	42
67150505	5	0.260	6.6	50

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
▶ 19 AWG (≈ 23/32) ▪ 0.75 mm²				
67150475	4	0.268	6.8	53
67150575	5	0.291	7.4	63
67150775	7	0.362	9.2	95
▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm²				
67150715	7	0.417	10.6	146

Other dimensions and colors are available on request

DIN 47100 color code:

#1- white, #2- brown, #3- green, #4- yellow, #5- gray, #6- pink, #7- blue, #8- red, #9- black, #10- violet, #11- gray-pink, #12- red-blue, #13- white-green, #14- brown-green, #15- white-yellow, #16- yellow-brown, #17- white-gray, #18- gray-brown, #19- white-pink, #20- pink-brown, #21- white-blue, #22- brown-blue, #23- white-red, #24- brown-red, #25- white-black

Continuous Flex Cable with Highest Fire Protection



SABIX® S 712 FRNC C1

Continuous flex halogen-free shielded control cable with extended temperature range and higher fire protection



Marking for SABIX® S 712 C FRNC C1 67121215:

SAB BRÖCKSKES · D-VIERSEN · SABIX® S 712 C FRNC C1 12 x 1.5 mm² CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 6
Insulation:	SABIX®
Color code:	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
Stranding:	in layers
Wrapping:	non-woven tape
Shielding:	tinned copper braiding optical coverage ≥ 85%
Wrapping:	non-woven tape
Jacket material:	SABIX®
Jacket color:	black (RAL 9005)

Outstanding features:

- low smoke halogen-free (LSHF)
- continuous flex
- good EMC characteristics*
- no flame propagation
- flame retardant and self-extinguishing
- oil and fuel resistant
- good acid and alkalines resistance
- NF C 32-070 C1
- UV resistant jacket

*copper braiding should be connected circularly to optimize the EMC characteristics

Technical data:

Nominal voltage:	Uo/U 0.6/1 kV
Testing voltage:	conductor/conductor: 4000 V conductor/shielding: 4000 V
Min. bending radius:	<i>fixed installation:</i> 4 x O.D. <i>flexible application:</i> 6 x O.D. <i>continuous flex:</i> 15 x O.D.
Radiation resistance:	1 x 10 ⁷ cJ/kg (100 kGy)
Temperature range:	<i>static:</i> -40/+90°C <i>flexible:</i> -30/+90°C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Burning characteristics:	no flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 cat. C resp. D Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2 + NF C 32-070 C1
Corrosivity:	in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + VDE 0482-1034
Toxicity:	acc. to EN 50305
Oil and fuel resistance:	acc. to EN 50264-1 + VDE 0260-264-1
UV, ozone and weather resistance:	good
Mycological resistance:	good
Approvals:	CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	nominal outer-ø mm ±5%	cable weight ≈lbs/mft
▶ 20 AWG (≈ 16/32) ▪ 0.50 mm²				
67120205	2	0.280	7.1	54
67120505	5	0.346	8.8	81
▶ 19 AWG (≈ 23/32) ▪ 0.75 mm²				
67120507	5	0.378	9.6	99
67120707	7	0.449	11.4	142
▶ 18 AWG (≈ 30/32) ▪ 1.00 mm²				
67120510	5	0.386	9.8	109
67120710	7	0.480	12.2	168
67121210	12	0.563	14.3	226
67121810	18	0.669	17.0	330

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	nominal outer-ø mm ±5%	cable weight ≈lbs/mft
▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm²				
67120215	2	0.350	8.9	88
67120315	3	0.374	9.5	100
67120415	4	0.413	10.5	129
67120515	5	0.472	12.0	165
67121215	12	0.657	16.7	319
67121815	18	0.772	19.6	444
67122515	25	0.909	23.1	581
▶ 14 AWG (≈ 46/30) ▪ 2.50 mm²				
67120225	2	0.429	10.9	135
67120325	3	0.453	11.5	153
67120425	4	0.504	12.8	193
67120525	5	0.559	14.2	233
67121225	12	0.795	20.2	468

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	nominal outer-ø mm ±5%	cable weight ≈lbs/mft
▶ 12 AWG (≈ 224/34) ▪ 4.00 mm²				
67120440	4	0.559	14.2	251
67120540	5	0.634	16.1	323
67120740	7	0.744	18.9	438
▶ 10 AWG (≈ 183/32) ▪ 6.00 mm²				
67120260	2	0.551	14.0	228
67120460	4	0.654	16.6	345
▶ 6 AWG (≈ 504/32) ▪ 16.00 mm²				
67120462	4	0.909	23.1	760
▶ 4 AWG (≈ 760/32) ▪ 25.00 mm²				
67120463	4	1.071	27.2	1085
▶ 2 AWG (≈ 1083/32) ▪ 35.00 mm²				
67120464	4	1.217	30.9	1459

Other dimensions and colors are available on request

Cables for Crane and Conveyor applications



SABIX® SD 745 FRNC C1 TP

Continuous flex halogen-free shielded twisted pairs data cable with extended temperature range and higher fire protection



Marking for SABIX® SD 745 C FRNC C1 TP 67450350:

SAB BRÖCKSKES · D-VIERSEN · SABIX® SD 745 C FRNC C1 TP 3 x 2 x 0.50 mm² CE

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	SABIX®
Color code:	DIN 47100, see page O/26
Stranding:	pairwise, pairs in layers
Wrapping:	non-woven tape
Shielding:	tinned copper braiding, optical coverage ≥ 85%
Wrapping:	non-woven tape
Jacket material:	SABIX®
Jacket color:	black (RAL 9005)

Outstanding features:

- low smoke halogen-free (LSHF)
- continuous flex
- good EMC characteristics*
- no flame propagation
- flame retardant and self-extinguishing
- oil and fuel resistant
- good acid and alkalines resistance
- NF C 32-070 C1
- UV resistant jacket

*copper braiding should be connected circularly to optimize the EMC characteristics

Technical data:

Nominal voltage:	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
Testing voltage:	conductor/conductor: 1500 V conductor/shielding: 1200 V
Min. bending radius:	<i>fixed installation</i> 4 x O.D. <i>flexible application:</i> 6 x O.D. <i>continuous flex:</i> 15 x O.D.
Radiation resistance:	1 x 10 ⁷ cJ/kg (100 kGy)
Temperature range:	<i>static:</i> -40/+90°C <i>flexible:</i> -30/+90°C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Burning characteristics:	no flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 cat. C resp. D Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2 + NF C 32-070 C1
Corrosivity:	in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + VDE 0482-1034
Toxicity:	acc. to EN 50305
Oil and fuel resistance:	acc. to EN 50264-1 + VDE 0260-264-1
UV, ozone and weather resistance:	good
Mycological resistance:	good
Approvals:	CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of pairs	nominal outer-ø inch ±10%	mm ±10%	cable weight ≈lbs/mft
▶ 26 AWG (≈ 18/38) - 0.14 mm²				
67450214	2	0.193	4.9	36
67450414	4	0.244	6.2	55
67450514	5	0.264	6.7	65
67450614	6	0.272	6.9	69
67451014	10	0.343	8.7	102
67451414	14	0.402	10.2	143
▶ 24 AWG (≈ 32/38) - 0.25 mm²				
67450225	2	0.213	5.4	43
67450425	4	0.272	6.9	66
67450625	6	0.299	7.6	87
67450725	7	0.362	9.2	115
67450825	8	0.378	9.6	131
67451025	10	0.386	9.8	143
67451225	12	0.421	10.7	167
67451425	14	0.445	11.3	185
67451625	16	0.461	11.7	199

item no.	no. of pairs	nominal outer-ø inch ±10%	mm ±10%	cable weight ≈lbs/mft
▶ 22 AWG (≈ 42/38) - 0.34 mm²				
67450234	2	0.256	6.5	61
67450634	6	0.370	9.4	125
67450734	7	0.394	10.0	154
67451034	10	0.457	11.6	191
67451834	18	0.587	14.9	314
67451934	19	0.587	14.9	329
67452734	27	0.705	17.9	461
▶ 20 AWG (≈ 16/32) - 0.50 mm²				
67450250	2	0.280	7.1	71
67450350	3	0.307	7.8	88
67450450	4	0.366	9.3	115
67451050	10	0.524	13.3	255
67451850	18	0.673	17.1	447
67452550	25	0.764	19.4	568

item no.	no. of pairs	nominal outer-ø inch ±10%	mm ±10%	cable weight ≈lbs/mft
▶ 19 AWG (≈ 23/32) - 0.75 mm²				
67450275	2	0.315	8.0	92
67450475	4	0.425	10.8	166
67450875	8	0.638	16.2	352
67451075	10	0.602	15.3	352

Other dimensions and colors are available on request

DIN 47100 color code:

#1- white/brown, #2- green/yellow, #3- gray/pink, #4- blue/purple, #5- black/purple, #6- gray-pink/red-blue, #7- white-green/brown-green, #8- white-yellow/yellow-brown, #9- white-gray/gray-brown, #10- white-pink/pink-brown, #11- white-blue/brown-blue, #12- white-red/brown-red, #13- white-black/brown-black, #14- gray-green/yellow-gray, #15- pink-green/yellow-pink, #16- green-blue/yellow-blue, #17- green-red/yellow-red, #18- green-black/yellow-black, #19- gray-blue/pink-blue, #20- gray-red/pink-red, #21- gray-black/pink-black, #22- blue-black, red-black, #23- white/brown, #24- green/yellow, #25- gray/pink

Production possibilities

Flexible cables and wires “Made in Germany”

As a leading manufacturer we develop and produce cables for industrial purposes.

Our wide range of materials offers a lot of possibilities for your individual product requirement.

The following survey shows an extract of our production possibilities:

Conductor Materials:

- ✓ bare copper
- ✓ tinned copper
- ✓ silver plated copper
- ✓ nickel plated copper
- ✓ nickel
- ✓ nickel pure
- ✓ compensating cable alloys

Insulation and Jacketing Materials:

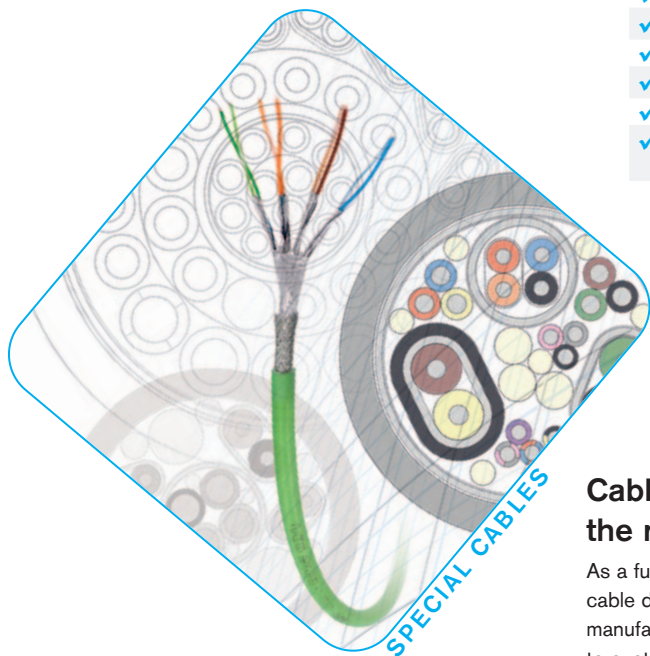
- ✓ PVC
- ✓ Polyethylene
- ✓ Polypropylene
- ✓ Polyurethane
- ✓ TPE
- ✓ SABIX® (zero halogen)
- ✓ Besilen® - Silicone
- ✓ FEP, ETFE, PFA, PTFE
- ✓ PI foil
- ✓ Fiberglass

Temperature Ranges:

- Thermoplastic Elastomers
- ✓ -50°C up to +145°C
- SABIX®
- ✓ -50°C up to +220°C
- Besilen® - Silicone
- ✓ -40°C up to +220°C
- FEP, ETFE, PFA
- ✓ -90°C up to +260°C
- Fiberglass
- ✓ up to +600°C

Conductors:

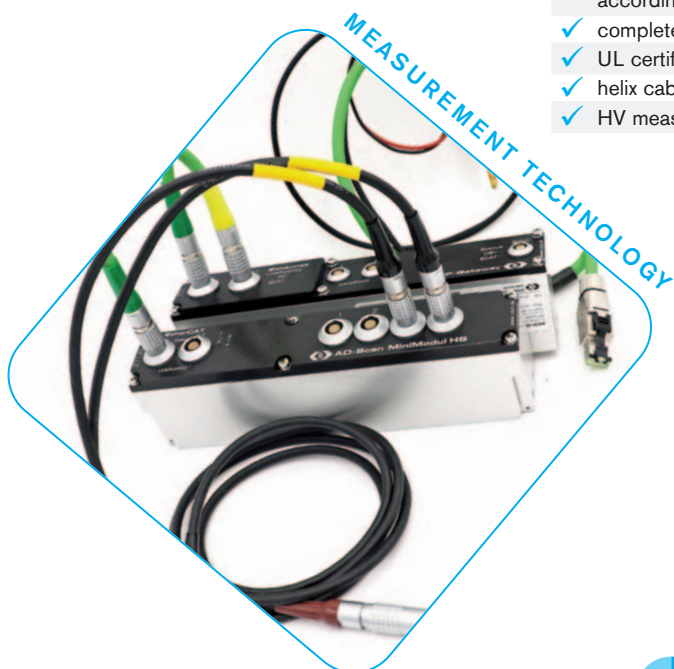
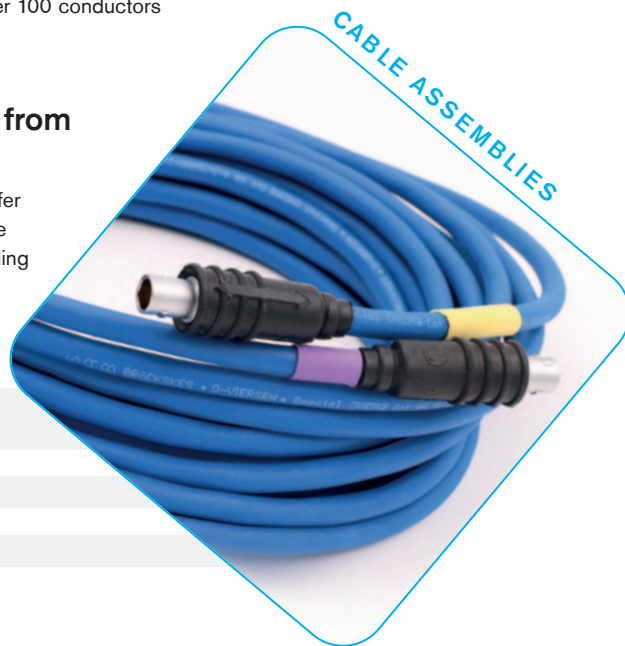
- ✓ cross sections 0.055 - 300 mm²
- ✓ unshielded and shielded over 100 conductors



Cable assemblies directly from the manufacturer SAB:

As a full service partner, we are able to offer cable design and production as well as the manufacturing of cable assemblies according to customer's request. Please trust on our experience for decades in the treatment of cables and connectors.

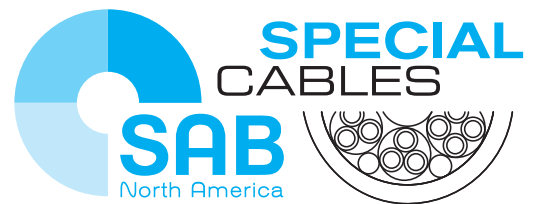
- ✓ cable assemblies according to customer's demands
- ✓ complete cable assemblies
- ✓ UL certified assemblies
- ✓ helix cables
- ✓ HV measuring assemblies



Measuring technology for industrial applications

Manufacturer of temperature sensors for industrial applications with 75 years of experience!

- ✓ mineral insulated thermocouples
- ✓ mineral insulated resistance thermometers
- ✓ temperature sensors
- ✓ mobile high voltage measuring technology
- ✓ temperature sensors for vehicle testing



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