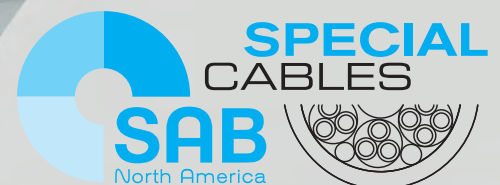


CABLES & ACCESSORIES FOR CLEANROOM TECHNOLOGY



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



About Us



SAB North America is a focused supplier for the automation, aerospace, medical, high temperature, and robotics industries, providing cable 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:

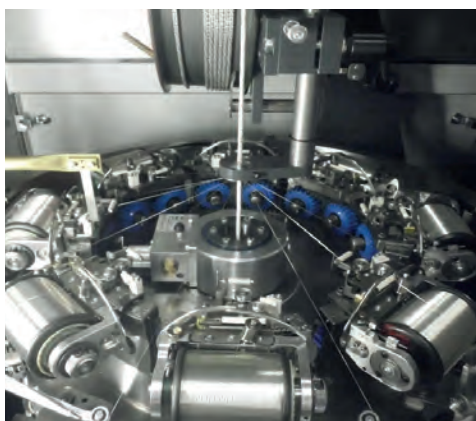
- Hybrid designs for multiple functions
- Harsh environments
- Difficult applications
- Industry-specific requirements



The SAB Cleanroom Cables are used for cleanroom applications. It doesn't matter if it is applied for semiconductor production, in machines for display manufacturing, in devices of biological or medical technique or in food or medicine industry.

SAB_{clean} cables are used in cleanrooms where combined twisting and bending stresses occur. The high quality 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. SAB_{clean} cables meet the highest requirements acc. to ISO 14644-1.









SAB's level of speed and service as a supplier is unmatched.



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 cables

Cables for Cleanroom Technology

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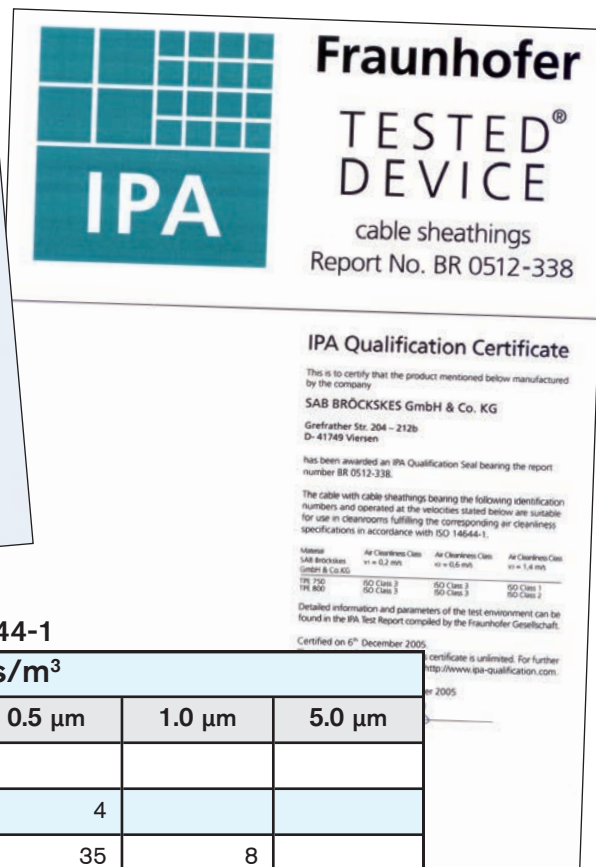
Cables for Cleanroom Technology

SABclean Applications



The guideline VDI 2083 sheet 8 treats the suitability of equipment for cleanrooms with respect to planning, production, maintenance, recovering and proof. The examination of our SABclean cables by the Fraunhofer Institute showed that our SABclean cables met all quality requirements.

Thus SAB Bröckskes is able to present its "Tested Device Certificate" by the Fraunhofer Institute.



Classification of air cleanliness acc. to ISO 14644-1

class	maximum particles/m ³					
	0.1 µm	0.2 µm	0.3 µm	0.5 µm	1.0 µm	5.0 µm
ISO 1	10	2				
ISO 2	100	24	10	4		
ISO 3	1,000	237	102	35	8	
ISO 4	10,000	2370	1,020	352	83	
ISO 5	100,000	23,700	10,200	3,520	832	29
ISO 6	1,000,000	237,000	102,000	35,200	8,320	293
ISO 7				352,000	83,200	2,930
ISO 8				3,520,000	832,000	29,300
ISO 9				35,200,000	8,320,000	293,000

Application examples

- SABclean cables are used in cleanrooms.
- Examples are the production of semiconductors, machines for display manufacturing, devices for biological or medical engineering, food and medical production.
- SABclean cables meet highest requirements acc. to ISO 14644-1.

Cables for Cleanroom Technology

SAB_{clean} Applications

Facilities that produce semiconductor components and equipment must regularly filter and monitor the air to ensure their cleanrooms comply with international standards. These standards regulate the dispersion of micrometer-sized particles. The cables used in automated systems within cleanrooms must be able to withstand the rigors of repetitive or complex motion, and their flexing and torsion can't discharge any particles. Additionally, the cable materials can't influence product cleanliness. SAB_{clean} cables meet all quality requirements and are suitable for use in cleanrooms. In fact, the cable family meets the highest standards of ISO 14644-1.

Our cleanroom torsion and Ethernet cables are well-suited for a wide range of machines and systems found in cleanrooms. They feature quality insulation with a smooth surface and anti-stick wrapping to prolong cable life under extreme twisting and bending stresses. The outer jacket made of specially formulated TPE resists abrasion, oils, notching, microbes and hydrolysis. Also, the surface quality prevents adhesion to adjacently installed cables.



Cables for Cleanroom Technology

SAB^{clean} **CATLine CAT 5e S**
SAB^{clean} **CATLine CAT 6A S**
SAB^{clean} **CATLine CAT 7A S**

CAT 5e industrial Ethernet cable
 CAT 6A industrial Ethernet cable
 CAT 7A industrial Ethernet cable



x26AWG 17779003 · AWM Style 20549 80°C 300V CE



Marking for **SAB**^{clean} CATLine CAT 7A S 17779003

SAB BRÖCKSKES · D-VIERSEN · **SAB** Clean **CATLine** Cat. 7A S 4x2x26AWG 17779003 | AWM Style 20549 80°C 300V CE RoHS

Construction:	SAB ^{clean} CATLine CAT 5e S	SAB ^{clean} CATLine CAT 6A S	SAB ^{clean} CATLine CAT 7A S
Item numbers:	15779001	16779006	17779003
Dimensions:	4 x 2 x 26 AWG	4 x 2 x 26 AWG	4 x 2 x 26 AWG
Conductor:	bare copper strands, fine wires	bare copper strands, fine wires	bare copper strands, fine wires
Insulation:	special polymer	special polymer	special polymer
Color code:	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
Stranding:	conductors twisted to pairs, pairs together	conductors twisted to pairs, pairs together	conductors twisted to pairs, pairs shielded with foil, pairs together
Shielding:	alu foil and tinned copper braiding	alu foil and tinned copper braiding	aluminized non-woven tape and tinned copper braiding
Wrapping:	non-woven tape	non-woven tape	non-woven tape
Jacket material:	TPE	TPE	TPE
Jacket color:	black (RAL 9005)	black (RAL 9005)	black (RAL 9005)

Technical data:	SAB ^{clean} CATLine CAT 5e S	SAB ^{clean} CATLine CAT 6A S	SAB ^{clean} CATLine CAT 7A S
Peak operating voltage:	max. 90 V	max. 90 V	max. 90 V
Voltage UL:	300 V	300 V	300 V
Testing voltage: conductor/conductor: conductor/shielding:	2000 V 2000 V	2000 V 2000 V	2000 V 2000 V
Min. bending radius fixed laying: flexible application: continuously flexible:	5 x O.D. 10 x O.D. 15 x O.D.	5 x O.D. 10 x O.D. 15 x O.D.	5 x O.D. 10 x O.D. 15 x O.D.
Temperature range VDE: static: flexible:	UL: up to +80°C -40/+70°C -30/+70°C	UL: up to +80°C -40/+70°C -30/+70°C	UL: up to +80°C -40/+70°C -30/+70°C
Burning Characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2 UL Horizontal Flame Test FT2		
Oil resistance:	very good - Oil 60°C acc. to UL 758	very good - Oil 60°C acc. to UL 758	very good - Oil 60°C acc. to UL 758
Characteristic impedance (100 MHz):	100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-2-2 / CAT 5	100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-10-2 / CAT 6A	100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-9-2 / CAT 7A
Flexibility:	very good	very good	very good
Air cleanliness class 1:	acc. to ISO 14644-1	acc. to ISO 14644-1	acc. to ISO 14644-1
UL Style:	20549	20549	20549
Absence of harmful substances:	acc. to RoHS directive of the European Union, see page O/30		

item no.	type	dimensions AWG	outer-ø max. inch	mm	cable weight ≈ lbs/mft
▶ 15779001	SAB ^{clean} CATLine CAT 5e S	26 (≈ 7/34)/4pr	0.251	6.4	32
▶ 16779006	SAB ^{clean} CATLine CAT 6A S	26 (≈ 7/34)/4pr	0.271	6.9	38
▶ 17779003	SAB ^{clean} CATLine CAT 7A S	26 (≈ 7/34)/4pr	0.350	8.9	57

Other dimensions and colors are available on request



Cleanroom classification
ISO 14644-1
Air Cleanliness Class 1

Also possible as a
 cable assembly with
 M12 or RJ 45 plug

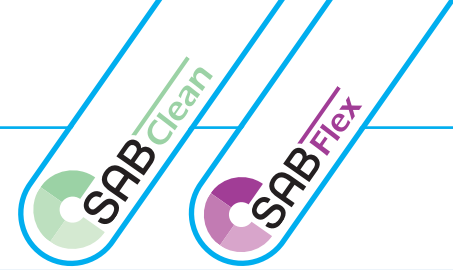


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Cables for Cleanroom Technology

SAB_{clean} SD 776 Continuously flexible data cable

SAB_{clean} S 776 Continuously flexible control cable



Marking for **SAB_{clean} SD 776** 37761402:

SAB BRÖCKSKES · D-VIERSEN · SAB Clean SD 776 · 14 x 0.25 mm² CE RoHS



Marking for **SAB_{clean} S 776** 37760410:

SAB BRÖCKSKES · D-VIERSEN · SAB Clean S 776 · 4G 1.0 mm² CE RoHS

Construction:

Conductor: SD 776:	bare copper strands extra fine wire
S 776:	bare copper strands acc. to IEC 60228, VDE 0295, class 6
Insulation:	TPE
Color code: SD 776:	acc. to DIN 47100, see below
S 776:	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
Stranding:	specially adjusted layering
Wrapping:	non-woven tape
Jacket material:	TPE
Jacket color:	black (RAL 9005)

Technical data:

Peak operating voltage:	SD 776: max. 350 V
Nominal voltage:	S 776: U ₀ /U 300/500 V
Testing voltage: SD 776:	conductor/conductor: 1500 V
S 776:	conductor/conductor: 2000 V
Min. bending radius:	7.5 x O.D.
Temperature range: <i>static:</i> <i>flexing:</i>	-40/+80°C -30/+80°C
Oil resistance:	very good- oil rating 60°C acc. to UL 758
Air cleanliness class 1:	acc. to ISO 14644-1
Approvals:	CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:



- flexible at low temperatures
- high abrasion resistance
- small outer diameter
- oil resistant



Cleanroom classification
ISO 14644-1
Air Cleanliness Class 1

SD 776

item no.	no. of conductors	outer-ø inch ±5%	outer-ø mm ±5%	cable weight ≈lbs/mft	ohmic resistance at 20°C max. Ω/km
▶ 24 AWG ▪ 0.25 mm²					
37760302	3	0.161	4.1	15	78
37760402	4	0.169	4.3	17	78
37760502	5	0.181	4.6	21	78
37760602	6	0.197	5.0	25	78
37760702	7	0.209	5.3	28	78
37761002	10	0.240	6.1	35	78
37761402	14	0.256	6.5	44	78
▶ 22 AWG ▪ 0.34 mm²					
37760503	5	0.193	4.9	25	57.4
37763203	32	0.390	9.9	109	57.4

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, #26- brown-black, #27- gray-green, #28- yellow-gray, #29- pink-green, #30- yellow-pink, #31- green-blue, #32- yellow-blue

S 776

item no.	no. of conductors incl. ground	outer-ø inch ±5%	outer-ø mm ±5%	cable weight ≈lbs/mft	ohmic resistance at 20°C max. Ω/km
▶ 20 AWG ▪ 0.50 mm²					
37760205	2	0.209	5.3	24	39
37760305	3	0.217	5.5	28	39
37760405	4	0.232	5.9	33	39
37760505	5	0.252	6.4	40	39
37760705	7	0.287	7.3	53	39
37761205	12	0.343	8.7	75	39
▶ 19 AWG ▪ 0.75 mm²					
37760407	4	0.256	6.5	42	26
37760507	5	0.280	7.1	52	26
37760707	7	0.319	8.1	70	26
▶ 18 AWG ▪ 1.0 mm²					
37760410	4	0.276	7.0	52	19.5
▶ 16 AWG ▪ 1.5 mm²					
37760415	4	0.303	7.7	67	13.3
37760515	5	0.331	8.4	83	13.3
▶ 14 AWG ▪ 2.5 mm²					
37760425	4	0.378	9.6	105	7.98
▶ 12 AWG ▪ 4.0 mm²					
37760440	4	0.476	12.1	169	4.95
▶ 10 AWG ▪ 6.0 mm²					
37760460	4	0.520	13.2	225	3.3
▶ 8 AWG ▪ 10 mm²					
37760461	4	0.622	15.8	345	1.91

Other dimensions and colors are available on request

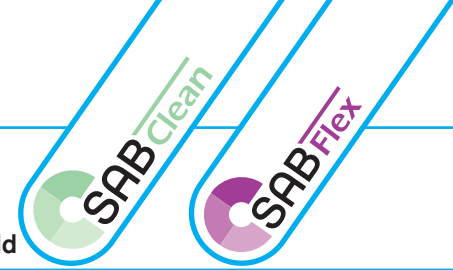


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Cables for Cleanroom Technology

SABclean SD 780 C Continuously flexible data cable with overall shield

SABclean S 780 C Continuously flexible control cable with overall shield



Marking for **SABclean SD 780 37801803**:
SAB BRÖCKSKES · D-VIERSEN · SAB Clean SD 780 · 18 x 0.34 mm² CE RoHS



Marking for **SABclean S 776 37780410**:
SAB BRÖCKSKES · D-VIERSEN · SAB Clean S 780 C · 4G 1.0 mm² CE RoHS

Construction:

Conductor: SD 780:	bare copper strands extra fine wire
S 780 C:	bare copper strands acc. to IEC 60228, VDE 0295, class 6
Insulation:	TPE
Color code: SD 780:	acc. to DIN 47100, see below
S 780 C:	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
Stranding:	specially adjusted layering
Wrapping:	non-woven tape
Inner jacket:	S 780 C: SABIX®
Wrapping:	S 780 C: non-woven tape
Shielding:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	TPE
Jacket color:	black (RAL 9005)

Technical data:

Peak operating voltage:	SD 780 C max. 350 V
Nominal voltage:	S 780 C: U ₀ /U 300/500 V
Testing voltage: SD 780 C	conductor/conductor: 1500 V conductor/shielding: 1200 V
S 780 C:	conductor/conductor: 2000 V conductor/shielding: 2000 V
Min. bending radius:	7.5 x O.D.
Temperature range: <i>static:</i>	-40/+80°C
<i>flexing:</i>	-30/+80°C
Oil resistance:	very good- oil rating 60°C acc. to UL 758
Air cleanliness class 1:	acc. to ISO 14644-1
Approvals:	CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:



- flexible at low temperatures
- high abrasion resistance
- small outer diameter
- oil resistant
- good EMC characteristics



Cleanroom classification
ISO 14644-1
Air Cleanliness Class 1

SD 780 C

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft	ohmic resistance at 20°C max. Ω/km
		inch ±5%	mm ±5%		
▶ 26 AWG ▪ 0.14 mm²					
37800201	2	0.528	4.3	17	139.3
37800301	3	0.583	4.4	18	139.3
▶ 24 AWG ▪ 0.25 mm²					
37800302	3	0.720	4.8	22	78
37800402	4	0.819	5.0	24	78
▶ 22 AWG ▪ 0.34 mm²					
37800303	3	0.827	5	24	57.4
37800503	5	1.252	5.6	34	57.4
37800703	7	1.543	6.3	42	57.4
37801003	10	2.079	7.2	52	57.4
37801803	18	3.331	8.4	79	57.4

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

S 780 C

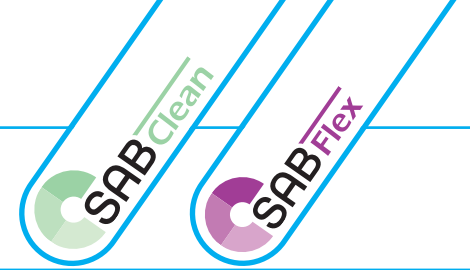
item no.	no. of conductors incl. ground	outer-ø		cable weight ≈lbs/mft	ohmic resistance at 20°C max. Ω/km
		inch ±5%	mm ±5%		
▶ 20 AWG ▪ 0.50 mm²					
37800305	3	1.362	7.2	46	39
37800405	4	1.567	7.6	51	39
▶ 19 AWG ▪ 0.75 mm²					
37800207	2	1.374	7.5	47	26
37800407	4	2.031	8.2	62	26
▶ 18 AWG ▪ 1.00 mm²					
37800210	2	1.646	7.9	54	19.5
37800310	3	2.031	8.2	62	19.5
37800410	4	2.543	8.9	76	19.5
▶ 16 AWG ▪ 1.50 mm²					
37800315	3	2.732	9	79	13.3
37800415	4	3.327	9.6	93	13.3
▶ 14 AWG ▪ 2.50 mm²					
37800425	4	5.839	11.7	145	7.98
▶ 12 AWG ▪ 4.00 mm²					
37800440	4	8.484	13.9	210	4.95

Other dimensions and colors are available on request

Cables for Cleanroom Technology

SAB^{clean} SD 787 C TP

Continuously flexible paired data cable with overall shield



Marking for SAB^{clean} SD 787 C TP 37810725:

SAB BRÖCKSKES · D-VIERSEN · SAB Clean SD 787 C TP · 7 x 2 x 0,25 mm² CE RoHS

Construction:

Conductor:	tinned copper strands, extra fine wires with reference to VDE 0812
Insulation:	TPE
Color code:	acc. to DIN 47100, see below
Stranding:	conductors twisted to pairs in specially adjusting layering
Wrapping:	non-woven tape
Shielding:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	TPE
Jacket color:	black (RAL 9005)

Outstanding features:



- flexible at low temperatures
- high abrasion resistance
- oil resistant
- good EMC characteristics

Technical data:

Peak operating voltage:	max. 350 V
Testing voltage:	conductor/conductor: 1500 V conductor/shielding: 1200 V
Min. bending radius:	7,5 x O.D.
Temperature range:	<i>static:</i> -40/+80°C <i>flexing:</i> -30/+80°C
Oil resistance:	very good- oil rating 60°C acc. to UL 758
Air cleanliness class 1:	acc. to ISO 14644-1
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	outer-ø		cable weight ≈lbs/mft	ohmic resistance at 20°C max. Ω/km
		inch ±5%	mm ±5%		
▶ 24 AWG ▪ 0.25 mm²					
37810225	2	0.992	5.5	30	80
37810325	3	1.209	6.1	36	80
37810425	4	1.539	7.0	45	80
37810525	5	1.752	7.5	52	80
37810625	6	1.953	7.7	58	80
37810725	7	2.217	8.0	67	80
37810825	8	2.559	9.6	84	80
37811225	12	4.106	10.8	106	80
▶ 20 AWG ▪ 0.50 mm²					
37810850	8	5.106	12.1	142	40.1

Other dimensions and colors are available on request

DIN 47100 color code:

#1- white/brown, #2- green/yellow, #3- gray/pink, #4- blue/red, #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



Cleanroom classification
ISO 14644-1
Air Cleanliness Class 1

Cables for Cleanroom Technology

SAB^{clean} RT 793 D

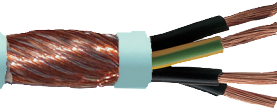
TPE Cleanroom shielded torsional cable $\pm 360^\circ$ torsion over 1 m

torsional/twisting
angle up to $\pm 360^\circ$

SAB^{Clean}

SAB^{Robot}

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



Marking for SAB^{clean} RT 793 D 37930415:

SAB BRÖCKSKES · D-VIERSEN · 4 x 1.5 mm² SAB Clean 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

Construction:

Conductor:	bare copper strands, acc. to IEC 60228, VDE 0295, class 6
Insulation:	TPE
Color code:	black conductors with consecutive white numbers acc. to EN 50334 + VDE 0293-334 and green/yellow ground from 3 conductors
Stranding:	conductors twisted with specially adjusted layering
Wrapping:	non-woven tape
Shielding:	wrapped with bare copper wires
Wrapping:	non-woven tape
Jacket material:	TPE
Jacket color:	white green (RAL 6019)

Technical data:

Nominal voltage:	U ₀ /U 300/500 V	
Voltage UL/CSA:	600 V	
Testing voltage:	conductor/conductor: 3000 V conductor/shielding: 2000 V	
Torsion angle:	up to $\pm 360^\circ/1$ m (tested)	
Min. bending radius: <i>continuously flexible:</i>	7.5 x O.D.	
Temperature range: <i>static:</i>	DIN VDE -50/+70°C	UL/CSA: up to +80°C
<i>motion:</i>	-40/+70°C	up to +80°C
Air cleanliness class 1:	acc. to ISO 14644-1	
Approvals:	UR AWM, CSA AWM, EAC, CE, RoHS	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

Outstanding features:



- rugged and reliable
- torsion angle up to $\pm 360^\circ$ over 1 meter

item no.	dimensions	outer- ϕ		cable weight \approx lbs/mft	ohmic resistance at 20°C max Ω /km
		inch	mm		
▶ 37930505	20 AWG ($\approx 28/34$) / 5c	0.343	8.7	67	39.0
▶ 37930415	16 AWG ($\approx 84/34$) / 4c	0.378	9.6	97	13.3
▶ 37931215	16 AWG ($\approx 84/34$) / 12c	0.555	14.1	213	13.3
▶ 37930225	14 AWG ($\approx 140/34$) / 2c	0.386	9.8	94	7.98
▶ 37930425	14 AWG ($\approx 140/34$) / 4c	0.433	11.0	129	7.98

Other dimensions and colors are possible on request.



Cleanroom classification
ISO 14644-1
Air Cleanliness Class 1

Cables for Cleanroom Technology

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 offer 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:

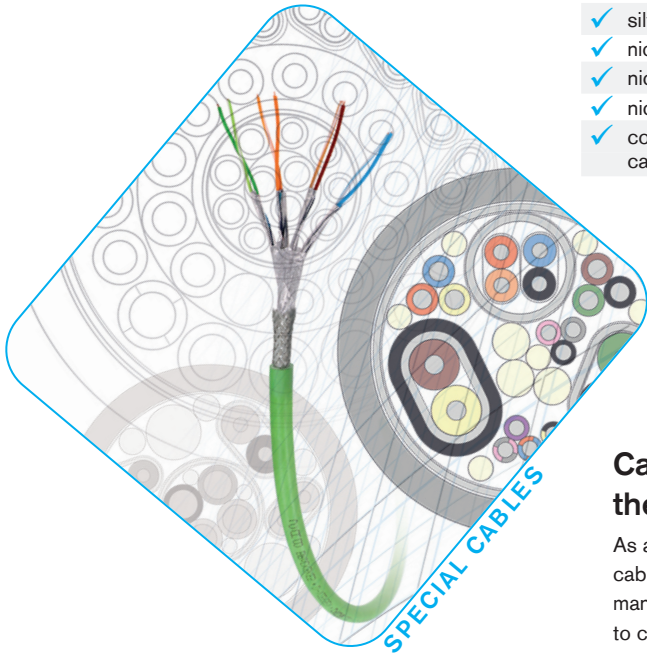
- ✓ PVC
- ✓ Polyethylene
- ✓ Polypropylene
- ✓ Polyurethane
- ✓ TPE
- ✓ SABIX® (zero halogen)
- ✓ Besilen® - Silicone
- ✓ FEP, ETFE, PFA, PTFE
- ✓ PI foil
- ✓ Fiberglass

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:

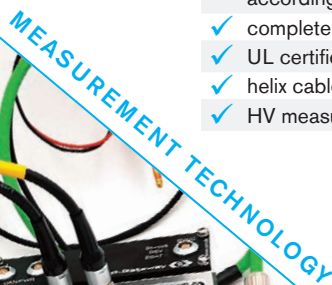
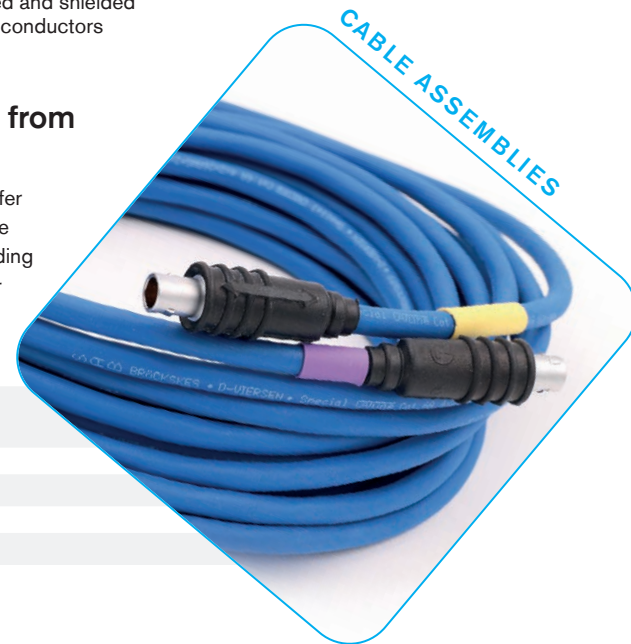
- ✓ cross sections 0.055 - 300 mm²
- ✓ unshielded and shielded over 100 conductors



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.

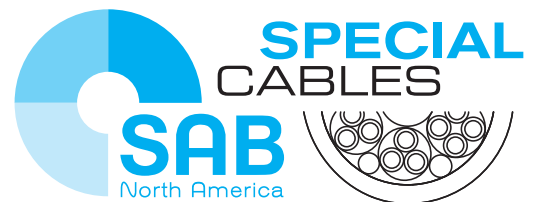
- ✓ cable assemblies according to customer's demands
- ✓ complete cable assemblies
- ✓ UL certified assemblies
- ✓ helix cables
- ✓ HV measuring assemblies



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