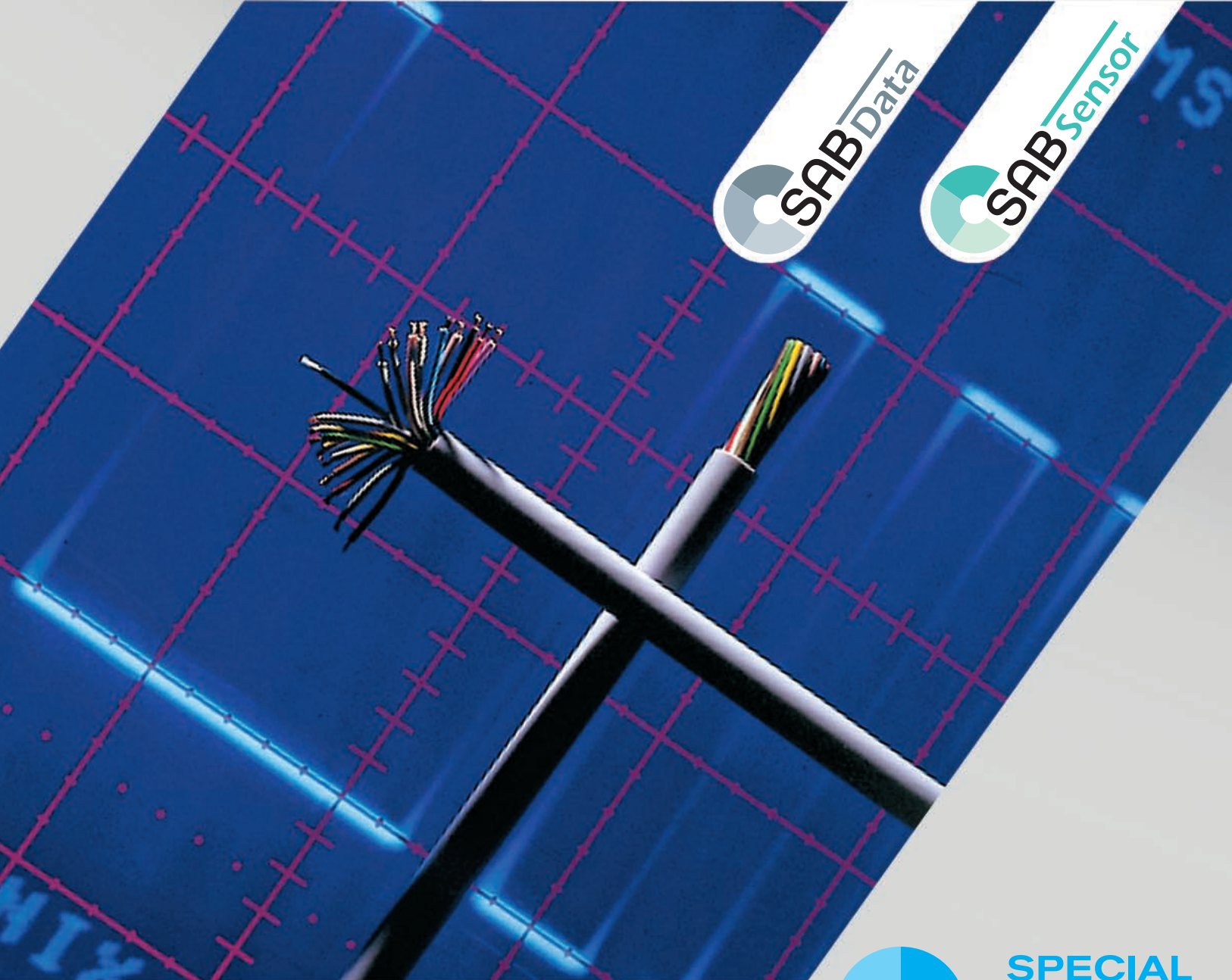
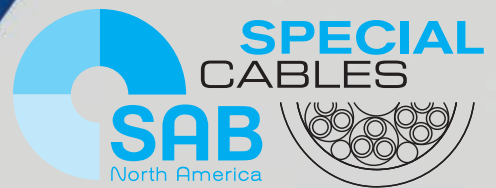


DATA & SENSOR CABLES




FF



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Applications

■ Modern electronics and miniaturized appliances require data cables with the smallest cross sections, best shielding and highest flexibility. SAB data cables meet these requirements to a high degree. Different types of shieldings, i.e. single or double shields, tinned copper wrappings or braids, protect the cables against outer high-frequency interference. Different types of strandings (in layers or pair-wise) can prevent mutual interference of adjoining circuits. Especially in the computer era, data cables have become essential and they must be continuously adjusted to the latest technical developments. The color code with reference to DIN 47100 guarantees a perfect assignment of the conductors for the connection of the cable. The cables are produced with reference to the usual DIN VDE regulations.

■ Applications of PVC data cables

SAB data cables are used for the transmission of measuring, control and voice signals in electronic control appliances, in electronics for data processing systems, for paging and intercom systems, weighing installations, office machines, etc. The cables can be used for fixed installations and flexible applications with free movement, without tensile load and mechanically guided movement in dry, damp, and wet conditions. They are not suitable for outdoor use.

Exemplary applications:

LiYY	Scales, construction of appliances and control panels, construction of low-voltage switchboard plants, communication technologies
LiYCY	Scales, construction of appliances and control panels, construction of low-voltage switchboard plants, process controls, construction of appliances for electric installations, test and control technologies
LiYCY (B) TP	Measuring, control and voice signals, e.g. in low-voltage switchboard plants, scales and appliance engineering, in communication technologies, in control and measuring technologies, in office and computing machines
LiYDY-CY TP	Measuring, control and voice signals, e.g. in scales and low-voltage switchboard plant engineering, for interference-prone operation controls, in control and measuring technologies, in high-sensitive data processing systems
DC 300 DS DC 300 DS TP	Measuring, control and voice signals, e.g. in scales and low-voltage switchboard plant engineering, for interference-prone process controls, in control and measuring technologies, in high-sensitive data processing systems

■ Applications of sensor cables

The sensor cables are especially designed for the application at the polar circle or in extremely hot regions. The high flexibility and robustness as well as the large temperature range make these products especially suitable for temperature measuring and test technique. The smooth jacket surface doesn't produce a stick-slip effect and the slim cable construction enables small bending radii to $2 \times d$. This makes equally possible a comfortable laying especially for narrow spaces. Furthermore, these cables can be used for miniature sensors, as strain gauge feed cable or as connection cable for modular technique due to the small outer diameters and sections.

Exemplary applications:

Sensor minus 50 Sensor plus 150 Sensor plus 250	Temperature measurement and test technique, truck and car test runs, miniature sensors, as strain gauge feed cable or as connection cable in modular technique
--	--

Data & Sensor Cables

Selection Table



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4

		Cable Type	F/5	F/6	F/7	F/9	F/11	F/12	F/13	F/14	F/15	F/16	F/17
			DC 300 DS	DC 300 DS TP	LiYY	LiYCY	LiYCY (B) TP	LiYDY-CY TP	Securex DC 315 H C1 (LiHCH)	S 365	Sensor minus 50	Sensor plus 150	Sensor plus 250
Basic construction	Bare copper strands with reference to VDE 0812				●	●	●	●					
	Bare copper strands, class 5								●				
	Bare copper strands, fine wires									●			
	Tinned copper strands										●	●	
	Tinned copper strands acc. to ASTM B 286		●	●									
	Silver plated strands										●	●	●
	Overall copper shielding		●	●		●	●	●	●				
	No coupling of individual signals, low influence of neighboring cable circuits effective suppression of crosstalk and side-to-side crosstalk effects			●			●	●					
	Drain wire		●	●			●	●					
Temperature range fixed installation*	+250°C												
	+150°C												
	+125°C												
	+105°C												
	+ 90°C												
	+ 80°C												
	+ 70°C												
	- 30°C												
	- 40°C												
	- 50°C												
- 90°C													
Voltage	Peak operating voltage max. 48 V												
	Peak operating voltage max. 300 V												
	Peak operating voltage max. 350 V		●	●	● ¹	● ¹	● ¹	● ¹					
	Peak operating voltage max. 500 V				● ²	● ²	● ²	● ²	●				
	Voltage UL 300 V									●			
	Voltage UL/CSA 300 V		●	●									
	Testing voltage 600 V											●	●
	Testing voltage 800 V												●
	Testing voltage 1200 V (conductor/shielding)						●	●	●				
	Testing voltage 1500 V (conductor/conductor)						●	●	●				
Testing voltage 2000 V		●	●						●				
Testing voltage 2500 V													
Standards and approvals	Fire performance flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2		●	●	●	●	●	●					
	Fire performance flame retardant acc. to EN 60332-1-2 + IEC 60332-1-2												
	no flame propagation acc. to IEC 60332-3-24 + EN 60332-3-24 + NF C 32070 C1												
	Fire performance UL VW-1		●	●									
	Fire performance CSA FT1, FT2		●	●									
	UL recognition		●	●							● ³		
	CSA approved		●	●									
Characteristics	Very good oil resistance										●	●	●
	Oil resistance acc. to internal standard		●	●	●	●	●	●					
	Very good chemical resistance												●
	Good flexibility					●	●	●	●	●			

from $< 0.25 \text{ mm}^2$
 to $\geq \text{from } .25 \text{ mm}^2$
³ depending on dimension

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

Data Cables

DC 300 DS

Multi-conductor double shielded PVC signal and control cable
Type AWM



Marking for DC 300 DS 3242225:

SAB BRÖCKSKES · D-VIERSEN · 3242522 DC 300 DS 22 AWG/25c 3242225 AWM Style 2464 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

Construction:

Conductor:	tinned copper strands acc. to ASTM B 286
Insulation:	semi-rigid PVC
Color code:	US 2, see below
Stranding:	in layers
Shielding:	double shielding, alu. foil, tinned copper braiding with tinned drain wire (0.22 mm ²)
Jacket material:	PVC
Jacket color:	grayish tan (RAL 7032)

Technical data:

Peak operating voltage:	max. 350 V
Voltage UL/CSA:	300 V
Testing voltage:	conductor/conductor: 2000 V conductor/shielding: 2000 V
Min. bending radius:	<i>fixed installation:</i> 5 x O.D. <i>free movement:</i> 10 x O.D.
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range:	DIN VDE UL/CSA: up to +80°C <i>static:</i> -30/+70°C <i>flexible:</i> -5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL VW-1, CSA FT1, FT2
Oil resistance:	acc. to internal standard, see page O/29
Approvals:	UR AWM, CSA AWM, CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:



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

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		± 5% inch	± 5% mm	
▶ AWG 28/7				
3242802	2	0.169	4.3	14
3242803	3	0.173	4.4	16
3242804	4	0.181	4.6	17
3242805	5	0.193	4.9	20
3242807	7	0.201	5.1	23
3242810	10	0.236	6.0	29
3242812	12	0.244	6.2	32
3242814	14	0.252	6.4	34
3242818	18	0.272	6.9	41
3242825	25	0.311	7.9	50
▶ AWG 26/7				
3242602	2	0.177	4.5	16
3242603	3	0.181	4.6	17
3242604	4	0.193	4.9	20
3242605	5	0.201	5.1	24
3242607	7	0.213	5.4	26
3242610	10	0.252	6.4	34
3242612	12	0.260	6.6	38
3242614	14	0.268	6.8	41
3242618	18	0.291	7.4	50
3242625	25	0.335	8.5	63

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		± 5% inch	± 5% mm	
▶ AWG 24/7				
3242402	2	0.185	4.7	18
3242403	3	0.193	4.9	20
3242404	4	0.201	5.1	24
3242405	5	0.217	5.5	28
3242407	7	0.228	5.8	32
3242410	10	0.272	6.9	42
3242412	12	0.280	7.1	47
3242414	14	0.287	7.3	52
3242418	18	0.315	8.0	64
3242425	25	0.366	9.3	82

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		± 5% inch	± 5% mm	
▶ AWG 22/7				
3242202	2	0.197	5.0	21
3242203	3	0.205	5.2	25
3242204	4	0.217	5.5	28
3242205	5	0.232	5.9	34
3242207	7	0.248	6.3	40
3242210	10	0.295	7.5	54
3242212	12	0.303	7.7	60
3242214	14	0.315	8.0	67
3242218	18	0.346	8.8	83
3242225	25	0.406	10.3	110

Other dimensions and colors are available on request

US 2 color code:

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

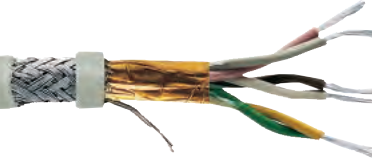
Data Cables

DC 300 DS TP

Multi-pair double shielded PVC signal and control cable
Type AWM



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



Marking for DC 300 DS TP 3842203:

SAB BRÖCKSKES · D-VIERSEN · 3840322 DC 300 DS TP 22 AWG/3pr 3842203 AWM Style 2464 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

Construction:

Conductor:	tinned copper strands acc. to ASTM B 286
Insulation:	semi-rigid PVC
Color code:	US 3, see below
Stranding:	conductors twisted to pairs, pairs twisted in layers
Shielding:	double shielding, alu. foil, tinned copper braiding with tinned drain wire (0.22 mm ²)
Jacket material:	PVC
Jacket color:	grayish tan (RAL 7032)

Technical data:

Peak operating voltage:	max. 350 V	
Voltage UL/CSA:	300 V	
Testing voltage:	conductor/conductor:	2000 V
	conductor/shielding:	2000 V
Min. bending radius:		
<i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
Radiation resistance:	8 x 10 ⁷ cJ/kg	
Temperature range:	DIN VDE	UL/CSA: up to +80°C
<i>static:</i>	-30/+70°C	
<i>flexible:</i>	-5/+70°C	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL VW-1, CSA FT1, FT2	
Oil resistance:	acc. to internal standard, see page O/29	
Approvals:	UR AWM, CSA AWM, CE, EAC, RoHS	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

Outstanding features:



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

F
6

item no.	no. of pairs	outer-ø		cable weight
		± 10% inch	± 10% mm	≈lbs/mft
▶ AWG 28/7				
3842802	2	0.201	5.1	19
3842803	3	0.217	5.5	23
3842804	4	0.240	6.1	27
3842805	5	0.256	6.5	31
3842807	7	0.272	6.9	36
3842810	10	0.311	7.9	45
3842814	14	0.354	9.0	57
3842818	18	0.378	9.6	70
3842825	25	0.425	10.8	87
▶ AWG 26/7				
3842602	2	0.213	5.4	22
3842603	3	0.232	5.9	27
3842604	4	0.260	6.6	32
3842605	5	0.276	7.0	38
3842607	7	0.287	7.3	42
3842610	10	0.335	8.5	56
3842614	14	0.386	9.8	73
3842618	18	0.413	10.5	89
3842625	25	0.465	11.8	112

item no.	no. of pairs	outer-ø		cable weight
		± 10% inch	± 10% mm	≈lbs/mft
▶ AWG 24/7				
3842402	2	0.228	5.8	26
3842403	3	0.248	6.3	32
3842404	4	0.280	7.1	39
3842405	5	0.299	7.6	46
3842407	7	0.311	7.9	54
3842410	10	0.362	9.2	71
3842414	14	0.421	10.7	94
3842418	18	0.453	11.5	116
3842425	25	0.508	12.9	148

item no.	no. of pairs	outer-ø		cable weight
		± 10% inch	± 10% mm	≈lbs/mft
▶ AWG 22/7				
3842202	2	0.248	6.3	32
3842203	3	0.268	6.8	40
3842204	4	0.303	7.7	48
3842205	5	0.327	8.3	58
3842207	7	0.343	8.7	70
3842210	10	0.402	10.2	95
3842214	14	0.465	11.8	124
3842218	18	0.500	12.7	156
3842225	25	0.579	14.7	207

Other dimensions and colors are available on request

US 3 color code:

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

Data Cables

LIYY

Multi-conductor signal and control cable with DIN color code



BRÖCKSKES · D-VIERSEN · LIYY 32x0.25mm² CE



Marking for LIYY 3053225:

SAB BRÖCKSKES · D-VIERSEN · LIYY 32x0.25mm² CE

Construction:

Conductor:	bare copper strands with reference to VDE 0812
Insulation:	PVC, Tl2 acc. to EN 50363-3 + VDE 0207-363-3
Color code:	DIN 47100, see below
Stranding:	in layers
Jacket material:	PVC, TM2 acc. to EN 50363-4-1 + VDE 0207-363-4-1
Jacket color:	grayish tan (RAL 7032)

Technical data:

Peak operating voltage:	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
Testing voltage:	conductor/conductor: 1500 V
Min. bending radius:	<i>fixed installation:</i> 5 x O.D. <i>free movement:</i> 10 x O.D.
Capacitance:	see page O/9
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range:	<i>static:</i> -30/+70°C <i>flexible:</i> -5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
Oil resistance:	acc. to internal standard, see page O/29
Chemical resistance:	see page O/11
Approvals:	CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:



- flexible
- small outer diameter
- small bending radius

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		± 5% inch	± 5% mm	
▶ 26 AWG (≈ 18/38) ▪ 0.14 mm²				
3050214	2	0.122	3.1	9
3050314	3	0.130	3.3	10
3050414	4	0.138	3.5	11
3050514	5	0.150	3.8	14
3050614	6	0.161	4.1	17
3050714	7	0.161	4.1	17
3050814	8	0.185	4.7	22
3051014	10	0.201	5.1	23
3051214	12	0.209	5.3	26
3051414	14	0.217	5.5	30
3051614	16	0.236	6.0	36
3051814	18	0.248	6.3	40
3052014	20	0.260	6.6	44
3052114	21	0.272	6.9	46
3052414	24	0.287	7.3	49
3052514	25	0.303	7.7	53
3052714	27	0.303	7.7	56
3053014	30	0.311	7.9	60
3053214	32	0.323	8.2	65
3053614	36	0.335	8.5	72
3054014	40	0.358	9.1	80
3054414	44	0.374	9.5	85
3054814	48	0.398	10.1	97
3055014	50	0.406	10.3	100
3055214	52	0.406	10.3	103
3055614	56	0.417	10.6	111
3056114	61	0.429	10.9	118

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		± 5% inch	± 5% mm	
▶ 24 AWG (≈ 14/34) ▪ 0.25 mm²				
3050225	2	0.134	3.4	11
3050325	3	0.142	3.6	13
3050425	4	0.154	3.9	16
3050525	5	0.165	4.2	19
3050625	6	0.181	4.6	23
3050725	7	0.181	4.6	24
3050825	8	0.205	5.2	30
3050925	9	0.220	5.6	34
3051025	10	0.232	5.9	34
3051225	12	0.240	6.1	39
3051425	14	0.252	6.4	44
3051625	16	0.264	6.7	50
3051825	18	0.280	7.1	56
3052025	20	0.299	7.6	64
3052125	21	0.311	7.9	67
3052425	24	0.331	8.4	73
3052525	25	0.339	8.6	75
3052725	27	0.339	8.6	80
3053025	30	0.350	8.9	88
3053225	32	0.362	9.2	93
3053625	36	0.394	10.0	110
3054025	40	0.417	10.6	122
3054425	44	0.437	11.1	129
3054825	48	0.445	11.3	138
3055025	50	0.457	11.6	144
3055225	52	0.457	11.6	148
3055625	56	0.469	11.9	159
3056125	61	0.484	12.3	171

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		± 5% inch	± 5% mm	
▶ 22 AWG (≈ 7/30) ▪ 0.34 mm²				
3050234	2	0.157	4.0	15
3050334	3	0.165	4.2	18
3050434	4	0.181	4.6	22
3050534	5	0.197	5.0	28
3050634	6	0.217	5.5	33
3050734	7	0.217	5.5	34
3050834	8	0.256	6.5	45
3051034	10	0.280	7.1	48
3051234	12	0.287	7.3	56
3051434	14	0.311	7.9	66
3051634	16	0.327	8.3	75
3051834	18	0.346	8.8	83
3052034	20	0.362	9.2	92
3052134	21	0.394	10.0	103
3052434	24	0.417	10.6	111
3052534	25	0.425	10.8	114
3052734	27	0.425	10.8	122
3053034	30	0.441	11.2	132
3053234	32	0.457	11.6	141
3053634	36	0.476	12.1	157
3054034	40	0.508	12.9	175
3054434	44	0.531	13.5	186
3054834	48	0.539	13.7	200
3055234	52	0.571	14.5	224
3055634	56	0.587	14.9	239
3056134	61	0.606	15.4	257

Continued on next page

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, #33- green-red, #34- yellow-red, #35- green-black, #36- yellow-black, #37- gray-blue, #38- pink-blue, #39- gray-red, #40- pink-red, #41- gray-black, #42- pink-black, #43- blue-black, #44- red-black, #45- white-brown-black, #46- yellow-green-black, #47- gray-pink-black, #48- red-blue-black, #49- white-green-black, #50- brown-green-black, #51- white-yellow-black, #52- yellow-brown-black, #53- white-gray-black, #54- gray-brown-black, #55- white-pink-black, #56- pink-brown-black, #57- white-blue-black, #58- brown-blue-black, #59- white-red-black, #60- brown-red-black, #61- black-white



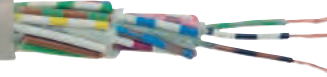
Data Cables

LiYY

Multi-conductor signal and control cable with DIN color code



BRÖCKSKES · D-VIERSEN · LiYY 32x0.25mm² CE



Marking for LiYY 3053225:

SAB BRÖCKSKES · D-VIERSEN · LiYY 32x0.25mm² CE

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		± 5% inch	± 5% mm	
▶ 20 AWG (≈ 16/32) ▪ 0.50 mm²				
3050250	2	0.169	4.3	18
3050350	3	0.177	4.5	22
3050450	4	0.193	4.9	27
3050550	5	0.213	5.4	34
3050650	6	0.240	6.1	42
3050750	7	0.240	6.1	44
3050850	8	0.280	7.1	56
3051050	10	0.311	7.9	62
3051250	12	0.319	8.1	71
3051450	14	0.335	8.5	81
3051650	16	0.354	9.0	92
3051850	18	0.374	9.5	102
3052050	20	0.409	10.4	120
3052150	21	0.429	10.9	127
3052450	24	0.453	11.5	136
3052550	25	0.461	11.7	141
3052750	27	0.461	11.7	150
3053050	30	0.476	12.1	164
3053250	32	0.496	12.6	175
3053650	36	0.516	13.1	195
3054050	40	0.571	14.5	226
3054450	44	0.594	15.1	241
3054850	48	0.602	15.3	258
3055250	52	0.618	15.7	277
3055650	56	0.638	16.2	297
3056150	61	0.657	16.7	319

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		± 5% inch	± 5% mm	
▶ 19 AWG (≈ 23/32) ▪ 0.75 mm²				
3050275	2	0.193	4.9	25
3050375	3	0.205	5.2	30
3050475	4	0.232	5.9	39
3050575	5	0.252	6.4	48
3050675	6	0.276	7.0	56
3050775	7	0.276	7.0	60
3050875	8	0.327	8.3	78
3051075	10	0.358	9.1	85
3051275	12	0.370	9.4	98
3051475	14	0.406	10.3	118
3051675	16	0.425	10.8	133
3051875	18	0.449	11.4	148
3052175	21	0.492	12.5	175
3052475	24	0.524	13.3	188
3052775	27	0.535	13.6	208
3053075	30	0.571	14.5	236
3053275	32	0.591	15.0	252
3053675	36	0.614	15.6	280

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		± 5% inch	± 5% mm	
▶ 18 AWG (≈ 30/32) ▪ 1.00 mm²				
3050280	2	0.201	5.1	29
3050380	3	0.213	5.4	36
3050480	4	0.240	6.1	47
3050580	5	0.264	6.7	58
3050680	6	0.287	7.3	69
3050780	7	0.287	7.3	74
▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm²				
3050285	2	0.220	5.6	36
3050385	3	0.240	6.1	47
3050485	4	0.264	6.7	58
3050585	5	0.303	7.7	77
3050685	6	0.331	8.4	91
3050785	7	0.331	8.4	98

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, #33- green-red, #34- yellow-red, #35- green-black, #36- yellow-black, #37- gray-blue, #38- pink-blue, #39- gray-red, #40- pink-red, #41- gray-black, #42- pink-black, #43- blue-black, #44- red-black, #45- white-brown-black, #46- yellow-green-black, #47- gray-pink-black, #48- red-blue-black, #49- white-green-black, #50- brown-green-black, #51- white-yellow-black, #52- yellow-brown-black, #53- white-gray-black, #54- gray-brown-black, #55- white-pink-black, #56- pink-brown-black, #57- white-blue-black, #58- brown-blue-black, #59- white-red-black, #60- brown-red-black, #61- black-white

F
8

Data Cables

LIYCY

Multi-conductor signal and control cable with overall tinned copper braid DIN color code



BRÖCKSKES · D-VIERSEN · LIYCY 5x0.25mm² CE



Marking for LIYCY 3150525:

SAB BRÖCKSKES · D-VIERSEN · LIYCY 5x0.25mm² CE

Construction:

Conductor:	bare copper strands with reference to VDE 0812
Insulation:	PVC, T12 acc. to EN 50363-3 + VDE 0207-363-3
Color code:	DIN 47100, see below
Stranding:	in layers
Wrapping:	PETP foil
Shielding:	tinned copper braiding
Jacket material:	PVC, TM2 acc. to EN 50363-4-1 + VDE 0207-363-4-1
Jacket color:	grayish tan (RAL 7032)

Technical data:

Peak operating voltage:	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
Testing voltage:	conductor/conductor: 1500 V conductor/shielding: 1200 V
Min. bending radius:	5 x O.D. <i>fixed installation:</i> 10 x O.D. <i>free movement:</i>
Capacitance:	see page O/9
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range:	<i>static:</i> -30/+70°C <i>flexible:</i> -5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
Oil resistance:	acc. to internal standard, see page O/29
Chemical resistance:	see page O/11
Approvals:	CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:



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

item no.	no. of conductors	outer-ø		cable weight
		± 5% inch	± 5% mm	≈lbs/mft
▶ 26 AWG (≈ 18/38) ▪ 0.14 mm²				
3150214	2	0.142	3.6	12
3150314	3	0.150	3.8	14
3150414	4	0.157	4.0	16
3150514	5	0.169	4.3	19
3150614	6	0.181	4.6	22
3150714	7	0.181	4.6	22
3150814	8	0.213	5.4	30
3151014	10	0.228	5.8	32
3151214	12	0.244	6.2	37
3151414	14	0.252	6.4	41
3151614	16	0.264	6.7	46
3151814	18	0.276	7.0	50
3152014	20	0.287	7.3	55
3152114	21	0.299	7.6	58
3152414	24	0.315	8.0	62
3152514	25	0.339	8.6	69
3152714	27	0.339	8.6	71
3153014	30	0.346	8.8	78
3153214	32	0.358	9.1	82
3153614	36	0.370	9.4	89
3154014	40	0.394	10.0	99
3154414	44	0.417	10.6	113
3154814	48	0.425	10.8	119
3155014	50	0.433	11.0	123
3155214	52	0.433	11.0	126
3155614	56	0.445	11.3	136
3156114	61	0.457	11.6	143

item no.	no. of conductors	outer-ø		cable weight
		± 5% inch	± 5% mm	≈lbs/mft
▶ 24 AWG (≈ 14/34) ▪ 0.25 mm²				
3150125	1	0.106	2.7	9
3150225	2	0.154	3.9	15
3150325	3	0.161	4.1	17
3150425	4	0.173	4.4	21
3150525	5	0.193	4.9	26
3150625	6	0.209	5.3	30
3150725	7	0.209	5.3	31
3150825	8	0.240	6.1	40
3150925	9	0.256	6.5	45
3151025	10	0.260	6.6	44
3151225	12	0.268	6.8	49
3151425	14	0.280	7.1	54
3151525	15	0.291	7.4	60
3151625	16	0.291	7.4	61
3151825	18	0.307	7.8	69
3152025	20	0.335	8.5	79
3152125	21	0.346	8.8	84
3152425	24	0.366	9.3	89
3152525	25	0.374	9.5	93
3152725	27	0.374	9.5	97
3153025	30	0.386	9.8	105
3153225	32	0.398	10.1	112
3153625	36	0.421	10.7	131
3154025	40	0.445	11.3	146
3154425	44	0.465	11.8	154
3154825	48	0.488	12.4	171
3155025	50	0.500	12.7	176
3155225	52	0.500	12.7	181
3155625	56	0.512	13.0	194
3156125	61	0.528	13.4	206

item no.	no. of conductors	outer-ø		cable weight
		± 5% inch	± 5% mm	≈lbs/mft
▶ 22 AWG (≈ 7/30) ▪ 0.34 mm²				
3150234	2	0.177	4.5	19
3150334	3	0.193	4.9	24
3150434	4	0.209	5.3	29
3150534	5	0.224	5.7	35
3150634	6	0.252	6.4	43
3150734	7	0.252	6.4	44
3150834	8	0.283	7.2	54
3151034	10	0.307	7.8	60
3151234	12	0.315	8.0	67
3151434	14	0.346	8.8	81
3151634	16	0.362	9.2	90
3151834	18	0.382	9.7	101
3152034	20	0.398	10.1	110
3152134	21	0.421	10.7	124
3152434	24	0.445	11.3	134
3152734	27	0.453	11.5	145
3153034	30	0.469	11.9	157
3153234	32	0.500	12.7	173
3153634	36	0.520	13.2	191
3154034	40	0.551	14.0	212
3154234	42	0.551	14.0	219
3154434	44	0.575	14.6	224
3154834	48	0.583	14.8	239
3155034	50	0.622	15.8	270
3155234	52	0.622	15.8	277
3155634	56	0.638	16.2	294
3156134	61	0.657	16.7	312

Continued on next page

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, #33- green-red, #34- yellow-red, #35- green-black, #36- yellow-black, #37- gray-blue, #38- pink-blue, #39- gray-red, #40- pink-red, #41- gray-black, #42- pink-black, #43- blue-black, #44- red-black, #45- white-brown-black, #46- yellow-green-black, #47- gray-pink-black, #48- red-blue-black, #49- white-green-black, #50- brown-green-black, #51- white-yellow-black, #52- yellow-brown-black, #53- white-gray-black, #54- gray-brown-black, #55- white-pink-black, #56- pink-brown-black, #57- white-blue-black, #58- brown-blue-black, #59- white-red-black, #60- brown-red-black, #61- black-white



LiYCY

Multi-conductor signal and control cable with overall tinned copper braid DIN color code



BRÖCKSKES · D-VIERSEN · LiYCY 5x0.25mm² CE



Marking for LiYCY 3150525:

SAB BRÖCKSKES · D-VIERSEN · LiYCY 5x0.25mm² CE

item no.	no. of conductors	outer-ø		cable weight
		± 5% inch	± 5% mm	≈lbs/mft
▶ 20 AWG (≈ 16/32) ▪ 0.50 mm²				
3150150	1	0.126	3.2	13
3150250	2	0.197	5.0	24
3150350	3	0.205	5.2	28
3150450	4	0.220	5.6	34
3150550	5	0.248	6.3	43
3150650	6	0.268	6.8	50
3150750	7	0.268	6.8	52
3150850	8	0.307	7.8	67
3151050	10	0.346	8.8	77
3151250	12	0.354	9.0	86
3151450	14	0.370	9.4	96
3151650	16	0.390	9.9	109
3151850	18	0.417	10.6	128
3152050	20	0.437	11.1	140
3152150	21	0.457	11.6	151
3152450	24	0.496	12.6	167
3152550	25	0.504	12.8	172
3152750	27	0.504	12.8	181
3153050	30	0.520	13.2	197
3153250	32	0.539	13.7	209
3153650	36	0.559	14.2	231
3154050	40	0.622	15.8	280
3154250	42	0.622	15.8	288
3155050	50	0.669	17.0	327
3155250	52	0.669	17.0	336
3156150	61	0.709	18.0	380

item no.	no. of conductors	outer-ø		cable weight
		± 5% inch	± 5% mm	≈lbs/mft
▶ 19 AWG (≈ 23/32) ▪ 0.75 mm²				
3150175	1	0.138	3.5	15
3150275	2	0.220	5.6	30
3150375	3	0.240	6.1	38
3150475	4	0.260	6.6	46
3150575	5	0.280	7.1	56
3150675	6	0.303	7.7	67
3150775	7	0.303	7.7	69
3150875	8	0.362	9.2	91
3151075	10	0.394	10.0	101
3151275	12	0.413	10.5	123
3151475	14	0.433	11.0	136
3151675	16	0.453	11.5	155
3151875	18	0.488	12.4	177
3152175	21	0.535	13.6	206
3152475	24	0.567	14.4	224
3152775	27	0.579	14.7	244
3153075	30	0.622	15.8	288
3153275	32	0.642	16.3	304
3153675	36	0.665	16.9	333

item no.	no. of conductors	outer-ø		cable weight
		± 5% inch	± 5% mm	≈lbs/mft
▶ 18 AWG (≈ 30/32) ▪ 1.00 mm²				
3150180	1	0.142	3.6	17
3150280	2	0.228	5.8	34
3150380	3	0.248	6.3	43
3150480	4	0.268	6.8	53
3150580	5	0.291	7.4	65
3150680	6	0.315	8.0	76
3150780	7	0.315	8.0	81
▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm²				
3150185	1	0.150	3.8	21
3150285	2	0.256	6.5	46
3150385	3	0.268	6.8	53
3150485	4	0.291	7.4	66
3150585	5	0.339	8.6	88
3150685	6	0.366	9.3	104
3150785	7	0.366	9.3	110

Other dimensions and colors are available on request

DIN 47100 color code:

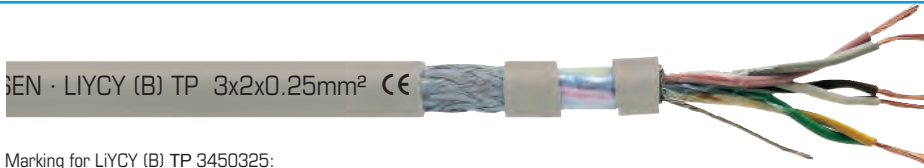
#1- white, #2- brown, #3- green, #4- yellow, #5- gray, #6- pink, #7- blue, #8- red, #9- black, #10- violet, #11- gray-pink, #12- red-blue, #13- white-green, #14- brown-green, #15- white-yellow, #16- yellow-brown, #17- white-gray, #18- gray-brown, #19- white-pink, #20- pink-brown, #21- white-blue, #22- 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, #33- green-red, #34- yellow-red, #35- green-black, #36- yellow-black, #37- gray-blue, #38- pink-blue, #39- gray-red, #40- pink-red, #41- gray-black, #42- pink-black, #43- blue-black, #44- red-black, #45- white-brown-black, #46- yellow-green-black, #47- gray-pink-black, #48- red-blue-black, #49- white-green-black, #50- brown-green-black, #51- white-yellow-black, #52- yellow-brown-black, #53- white-gray-black, #54- gray-brown-black, #55- white-pink-black, #56- pink-brown-black, #57- white-blue-black, #58- brown-blue-black, #59- white-red-black, #60- brown-red-black, #61- black-white

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Data Cables

LiYCY (B) TP

Multi-pair signal and control cable with overall tinned copper braid and DIN color code



Marking for LiYCY (B) TP 3450325:

SAB BRÖCKSKES · D-VIERSEN · LiYCY (B) TP 3x2x0.25mm² CE

Construction:

Conductor:	bare copper strands with reference to VDE 0812
Insulation:	PVC, T12 acc. to EN 50363-3 + VDE 0207-363-3
Color code:	DIN 47100, see below
Stranding:	conductors twisted to pairs, pairs twisted in layers
Wrapping:	PETP foil
Shielding:	tinned copper braiding with a tinned copper drain wire (22 AWG)
Jacket material:	PVC, TM2 acc. to EN 50363-4-1 + VDE 0207-363-4-1
Jacket color:	grayish tan (RAL 7032)

Technical data:

Peak operating 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> 5 x O.D. <i>free movement:</i> 10 x O.D.
Capacitance:	see page O/9
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range:	<i>static:</i> -30/+70°C <i>flexible:</i> -5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
Oil resistance:	acc. to internal standard, see page O/29
Chemical resistance:	see page O/11
Approvals:	CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:



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

item no.	no. of pairs	outer-ø ± 10% inch	outer-ø ± 10% mm	cable weight ≈lbs/mft
▶ 26 AWG (≈ 18/38) ▪ 0.14 mm²				
3450214	2	0.205	5.2	23
3450314	3	0.224	5.7	28
3450414	4	0.256	6.5	36
3450514	5	0.276	7.0	40
3450614	6	0.283	7.2	46
3450814	8	0.307	7.8	54
3451014	10	0.350	8.9	67
3451214	12	0.382	9.7	75
3451614	16	0.413	10.5	91
3451814	18	0.437	11.1	107
3452014	20	0.437	11.1	110
3452414	24	0.504	12.8	136
3452514	25	0.504	12.8	139
3452814	28	0.516	13.1	148
3453014	30	0.543	13.8	159
3453614	36	0.575	14.6	185
3454014	40	0.587	14.9	199
3454414	44	0.642	16.3	234
3455214	52	0.669	17.0	261
3456114	61	0.720	18.3	298

item no.	no. of pairs	outer-ø ± 10% inch	outer-ø ± 10% mm	cable weight ≈lbs/mft
▶ 24 AWG (≈ 14/34) ▪ 0.25 mm²				
3450225	2	0.224	5.7	28
3450325	3	0.252	6.4	37
3450425	4	0.283	7.2	45
3450625	6	0.311	7.9	57
3450825	8	0.354	9.0	73
3451025	10	0.386	9.8	89
3451225	12	0.429	10.9	108
3451625	16	0.469	11.9	131
3451825	18	0.500	12.7	149
3452425	24	0.559	14.2	181
▶ 22 AWG (≈ 7/30) ▪ 0.34 mm²				
3450234	2	0.268	6.8	38
3450334	3	0.291	7.4	48
3450434	4	0.346	8.8	67
3450534	5	0.374	9.5	78
3450634	6	0.382	9.7	86
3450834	8	0.417	10.6	97
3451234	12	0.528	13.4	151
3451634	16	0.575	14.6	188
3451834	18	0.594	15.1	206
3452434	24	0.693	17.6	279

item no.	no. of pairs	outer-ø ± 10% inch	outer-ø ± 10% mm	cable weight ≈lbs/mft
▶ 20 AWG (≈ 16/32) ▪ 0.50 mm²				
3450250	2	0.283	7.2	44
3450350	3	0.311	7.9	56
3450450	4	0.370	9.4	75
3450650	6	0.409	10.4	98
3450850	8	0.429	10.9	112
3451050	10	0.520	13.2	154
3451250	12	0.567	14.4	180
3451650	16	0.642	16.3	247
3451850	18	0.665	16.9	268
3452050	20	0.665	16.9	281
3452450	24	0.748	19.0	330
▶ 19 AWG (≈ 23/32) ▪ 0.75 mm²				
3450275	2	0.335	8.5	62
3450375	3	0.370	9.4	75
3450475	4	0.429	10.9	101
3450675	6	0.492	12.5	146
3451275	12	0.673	17.1	259
3451675	16	0.732	18.6	324
3451875	18	0.760	19.3	359
3452475	24	0.858	21.8	444

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, #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, #26- blue/red, #27- black/purple, #28- gray-pink/red-blue, #29- white-green/brown-green, #30- white-yellow/yellow-brown, #31- white-gray/gray-brown, #32- white-pink/pink-brown, #33- white-blue/brown-blue, #34- white-red/brown-red, #35- white-black/brown-black, #36- gray-green/yellow-gray, #37- pink-green/yellow-pink, #38- green-blue/yellow-blue, #39- green-red/yellow-red, #40- green-black/yellow-black, #41- gray-blue/pink-blue, #42- gray-red/pink-red, #43- gray-black/pink-black, #44- blue-black, red-black, #45- white/brown, #46- green/yellow, #47- gray/pink, #48- blue/red, #49- black/purple, #50- gray-pink/red-blue, #51- white-green/brown-green, #52- white-yellow/yellow-brown, #53- white-gray/gray-brown, #54- white-pink/pink-brown, #55- white-blue/brown-blue, #56- white-red/brown-red, #57- white-black/brown-black, #58- gray-green/yellow-gray, #59- pink-green/yellow-pink, #60- green-blue/yellow-blue, #61- green-red/yellow-red



Data Cables

LiYDY-CY TP

Multi-pair signal and control cable with overall tinned copper braid and DIN color code



ÖCKSKES · D-VIERSEN · LIYDY-CY TP 6x2x0.25mm² CE



Marking for LiYDY-CY TP 3410625:

SAB BRÖCKSKES · D-VIERSEN · LIYDY-CY TP 6x2x0.25mm² CE

Construction:

Conductor:	bare copper strands with reference to VDE 0812
Insulation:	PVC, T12 acc. to EN 50363-3 + VDE 0207-363-3
Color code:	DIN 47100, below
Stranding:	2 conductors twisted to pairs
Shielding:	wrapped pair-wise with tinned copper wires
Inner jacket:	pair-wise PVC, TM2 acc. to EN50363-4-1 + VDE 0207-363-4-1
Stranding:	pairs in concentric layers
Wrapping:	PETP foil
Shielding:	tinned copper braiding with a tinned copper drain wire (equal to conductor section)
Jacket material:	PVC, TM2 acc. to EN 50363-4-1 + VDE 0207-363-4-1
Jacket color:	grayish tan (RAL 7032)

Technical data:

Peak operating 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: 5 x O.D. free movement: 10 x O.D.
Capacitance:	see page O/9
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range:	static: -30/+70°C flexible: -5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
Oil resistance:	acc. to internal standard, see page O/29
Chemical resistance:	see page O/11
Approvals:	CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

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Outstanding features:



- very good EMC characteristics
- flexible

item no.	no. of pairs	outer-ø ± 10% inch	outer-ø ± 10% mm	cable weight ≈ lbs/mft
▶ 26 AWG (≈ 18/38) ▪ 0.14 mm²				
3410214	2	0.319	8.1	55
3410314	3	0.362	9.2	75
3410414	4	0.390	9.9	85
3410614	6	0.465	11.8	126
3410814	8	0.543	13.8	165
3411014	10	0.583	14.8	200
3411214	12	0.614	15.6	222
3411414	14	0.618	15.7	237
3411614	16	0.681	17.3	279
3412414	24	0.803	20.4	384
▶ 24 AWG (≈ 14/34) ▪ 0.25 mm²				
3410225	2	0.331	8.4	62
3410325	3	0.370	9.4	82
3410425	4	0.457	11.6	118
3410625	6	0.547	13.9	162
3410825	8	0.594	15.1	210
3411025	10	0.650	16.5	238
3411225	12	0.665	16.9	261
3411425	14	0.685	17.4	286
3411625	16	0.736	18.7	323
3412425	24	0.933	23.7	476

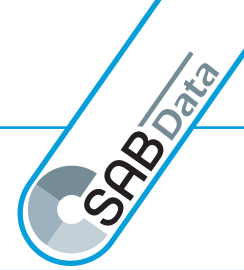
item no.	no. of pairs	outer-ø ± 10% inch	outer-ø ± 10% mm	cable weight ≈ lbs/mft
▶ 22 AWG (≈ 7/30) ▪ 0.34 mm²				
3410234	2	0.417	10.6	89
3410334	3	0.441	11.2	102
3410434	4	0.480	12.2	133
3410634	6	0.575	14.6	188
3410834	8	0.673	17.1	257
3411034	10	0.724	18.4	288
3411234	12	0.740	18.8	318
3411434	14	0.811	20.6	386
3411634	16	0.823	20.9	421
3412434	24	0.976	24.8	572

item no.	no. of pairs	outer-ø ± 10% inch	outer-ø ± 10% mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 16/32) ▪ 0.50 mm²				
3410250	2	0.425	10.8	95
3410350	3	0.441	11.2	112
3410450	4	0.528	13.4	157
3410650	6	0.591	15.0	216
3410850	8	0.717	18.2	291
3411050	10	0.783	19.9	339
3411250	12	0.819	20.8	373
3411450	14	0.843	21.4	408
3411650	16	0.909	23.1	468
3412450	24	1.043	26.5	645

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, #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



SECUREX DC 315 H C1

Halogen free data cable with shielding, C1 according to NF C 32070, and CPR B2ca s1a d1 a1 LIHCH style



Marking for SECUREX DC 315 H C1:

SAB BRÖCKSKES · D-VIERSEN · SAB-CABLES SECUREX DC 315 H C1 NFC 32070 C1 CE

Construction:

Conductor:	bare copper strands, class 5 acc. to IEC 60228 + EN 60228
Insulation:	LSZH
Color code:	DIN 47100, see below
Stranding:	in layers with fillers if necessary + PET tape
Shielding:	tinned copper braiding
Jacket material:	LSZH
Jacket color:	grayish tan (RAL 7032)

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage:	conductor/conductor: 1200 V conductor/shielding: 800 V
≤ 1.00 mm ² :	conductor/conductor: 2500 V conductor/shielding: 2000 V
> 1.00 mm ² :	
Min. bending radius:	
<i>fixed installation:</i>	6 x O.D.
<i>free movement:</i>	12.5 x O.D.
Temperature range:	
<i>static:</i>	-40/+80°C
<i>flexible:</i>	-15/+70°C
Halogen free:	acc. EN 60754-1 + IEC 60754-1
CPR:	B2ca s1a d1 a1
Burning characteristics:	flame retardant acc. to EN 60332-1-2 + IEC 60332-1-2 no flame propagation acc. to IEC 60332-3-24 + EN 60332-3-24 + NF C 32070 C1
Corrosiveness of conflagration gases:	acc. to EN 60754-2 + IEC 60754-2
Smoke density:	acc. to EN 61034-2 + IEC 61034-2
Approvals:	CE, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:



- LSZH and flexible
- NF C 32-070 C1
- B2ca s1a d1 a1
- good EMC characteristics
- good fire performance
- LIHCH

item no.	no. of conductors	outer-ø		cable weight
		inch	mm	≈lbs/mft
▶ 24 AWG ▪ 0.25 mm²				
83150225R	2	0.201	5.1	26
83150325R	3	0.205	5.2	29
83150425R	4	0.217	5.5	33
83150525R	5	0.230	5.9	38
83150625R	6	0.246	6.3	44
83150725R	7	0.246	6.3	45
83151225R	12	0.309	7.9	69
▶ 22 AWG ▪ 0.34 mm²				
83150234R	2	0.201	5.1	27
83150334R	3	0.213	5.4	32
83150434R	4	0.236	6.0	40
83150534R	5	0.256	6.5	48
83150734R	7	0.276	7.0	57
83151234R	12	0.358	9.1	93

item no.	no. of conductors	outer-ø		cable weight
		inch	mm	≈lbs/mft
▶ 20 AWG ▪ 0.50 mm²				
83150250R	2	0.224	5.7	36
83150350R	3	0.240	6.1	40
83150450R	4	0.260	6.6	48
83150550R	5	0.295	7.5	62
83150750R	7	0.319	8.1	75
83150850R	8	0.362	9.2	95
83151250R	12	0.406	10.3	118
83151850R	18	0.470	12.0	165
83152450R	24	0.528	13.4	210
▶ 19 AWG ▪ 0.75 mm²				
83150275R	2	0.236	6.0	40
83150375R	3	0.248	6.3	45
83150475R	4	0.268	6.8	54
83150575R	5	0.299	7.6	69
83150775R	7	0.323	8.2	84
83151275R	12	0.421	10.7	136
83152575R	25	0.583	14.8	276

item no.	no. of conductors	outer-ø		cable weight
		inch	mm	≈lbs/mft
▶ 18 AWG ▪ 1.00 mm²				
83150280R	2	0.248	6.3	45
83150380R	3	0.264	6.7	53
83150480R	4	0.291	7.4	66
83150580R	5	0.315	8.0	79
83150780R	7	0.343	8.7	99
83151280R	12	0.449	11.4	162
83151980R	19	0.539	13.7	248
83152780R	27	0.657	16.7	354

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

Sensor Cables

S 355

PUR sensor cable



Marking for S 355 3559026:

SAB BRÖCKSKES · D-VIERSEN · LI9Y11Y 3559026 AWM Style 21198 80°C 300V



LI9Y11Y 3559037 AWM Style 21198 80°C 300V

Marking for S 355 3559037:

SAB BRÖCKSKES · D-VIERSEN · LI9Y11Y 3559037 AWM Style 21198 80°C 300V

Construction:

Conductor:	bare copper strands, fine wires
Insulation:	3559026, 3559025, 3559027: TPE, thermoplastic material on basis of TPE-E 3559037: PP
Insulation:	TPE, thermoplastic material on basis of TPE-E
Color code:	3 conductors: 22 AWG: brown, black, blue 4 conductors: 22 AWG: white, blue, black, brown 20 AWG: green/yellow
Stranding:	specially adjusted layering
Wrapping:	non-woven tape
Jacket material:	PUR, reticulated by irradiation 3599037: PUR
Jacket color:	3559026, 3559025, 3559027: orange 3559037: black

Outstanding features:

- flexible installation
- reticulated by irradiation
- high abrasion resistance
- halogen-free
- free from paint wetting impairment substances (PWIS-free)
- suitable for cable tracks

Technical data:

Peak operating voltage:	max. 350 V (AC) 3559037: max. 300 V
Voltage UL:	3559037: 300 V
Test Voltage:	conductor/conductor: 2000 V
Min. bending radius:	3559037: <i>fixed installation:</i> 5 x O.D. <i>free movement:</i> 7.5 x O.D. 5 x O.D. 10 x O.D.
Capacitance:	see page O/9
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range:	3559037: <i>static:</i> -50/+105°C -50/+90°C <i>flexible:</i> -40/+105°C -40/+90°C
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Approvals:	UR AWM, CE, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

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item no.	no. of conductors	nominal cross section AWG	jacket color	outer-ø		cable weight ≈lbs/mft	ohmic resistance at 20°C max. Ω/km
				inch	mm		
▶ 3559026	4	22	orange	0.189	4.8 ± 0.2	21	56
▶ 3559025	3	22	orange	0.189	4.8 ± 0.2	19	56
▶ 3559027	4	22	orange	0.205	5.2 ± 0.2	27	56
	1	20					38
▶ 3559037	4	22	black	0.193	4.9 ± 0.2	22	57.4

Other dimensions and colors are available on request

Sensor Cables

Sensor minus 50

Low temperature resistant FEP insulated sensor cable up to -50°C



Sensor minus 50 4 x AWG 24/7



Marking for Sensor minus 50 38360424:

SAB BRÖCKSKES · D-VIERSEN · Sensor minus 50 4 x AWG 24/7 3836-0424

Application: Low temperature resistant sensor cable down to -50°C for measuring and testing technology. Supply cable for miniature sensors. Strain gauge supply cable with smallest bending radii for indoor and outdoor use.

Construction:

Conductor:	tinned copper strands, silver-plated from AWG 32
Insulation:	FEP
Color code:	DIN 47100, see below
Wrapping:	foil
Shielding:	tinned copper braiding, optical coverage ≥ 85%
Jacket material:	PUR 420 with matte surface
Jacket color:	black (RAL 9005)

Outstanding features:



- highest flexibility even with low temperatures down to -45°C
- absolutely weather resistant
- very easy installation due to anti-adhesive outer jacket - avoidance of stick-slip effect
- low capacity
- smallest bending radius
- easy harnessing
- small outer diameter

Technical Data:

Peak operating voltage:	max. 48 V
Testing voltage:	conductor/conductor: 600 V conductor/shielding: 600 V
Min. bending radius	
fixed installation:	2 x O.D. (one single bend)
free movement:	10 x O.D.
Temperature range cable:	
static*:	-50/+125°C
flexible*:	-45/+125°C
Temperature range conductor:	up to +180°C (short time use up to +205°C)
Low temperature resistance:	-50°C acc. to DIN EN 60811-506
Oil resistance:	very good - TMPU acc. to EN 50363-10-2
Fuel resistance:	good
Battery acid resistance:	good
UV resistance:	acc. to HD 605
Ozone resistance:	acc. to EN 50396
Saltwater resistance:	acc. to UL 1309
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30
	*+125 °C – up to 2,500 hours

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		± 5% inch	± 5% mm	
▶ AWG 34/7				
38360234	2	0.087	2.2	5
38360334	3	0.091	2.3	5
38360434	4	0.094	2.4	6
38360634	6	0.102	2.6	7
38360834	8	0.110	2.8	9
▶ AWG 32/7				
38360232	2	0.091	2.3	5
38360332	3	0.091	2.3	6
38360432	4	0.098	2.5	7
38360632	6	0.110	2.8	9
38360832	8	0.122	3.1	11

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		± 5% inch	± 5% mm	
▶ AWG 30/7				
38360230	2	0.094	2.4	6
38360330	3	0.098	2.5	7
38360430	4	0.102	2.6	8
38360630	6	0.118	3.0	11
38360830	8	0.126	3.2	13
▶ AWG 28/7				
38360228	2	0.102	2.6	7
38360328	3	0.106	2.7	9
38360428	4	0.110	2.8	9
38360628	6	0.122	3.1	12
38360828	8	0.150	3.8	17

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		± 5% inch	± 5% mm	
▶ AWG 26/7				
38360226	2	0.118	3.0	10
38360326	3	0.122	3.1	11
38360426	4	0.150	3.8	15
38360626	6	0.154	3.9	19
38360826	8	0.173	4.4	24
▶ AWG 24/7				
38360224	2	0.126	3.2	11
38360324	3	0.130	3.3	13
38360424	4	0.150	3.8	17
38360624	6	0.173	4.4	24
38360824	8	0.197	5.0	31

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



Possible on request:

- harnessed cable
- also available without copper braiding



Sensor Cables

Sensor plus 150

High temperature resistant FEP insulated sensor cable up to +150°C



Sensor plus 150 4 x AWG 24/7

Marking for Sensor plus 150 38370424:

SAB BRÖCKSKES · D-VIERSEN · Sensor plus 150 4 x AWG 24/7 3837-0424

Application: High temperature resistant sensor cable up to max. +150°C for measuring and testing technology. Supply cable for miniature sensors. Strain gauge supply cable for smallest bending radii. Connecting cable for modular technology.

Construction:

Conductor:	tinned copper strands, silver-plated from AWG 32
Insulation:	FEP
Color code:	DIN 47100, see below
Wrapping:	foil
Shielding:	tinned copper braiding, optical coverage ≥ 85%
Jacket material:	PUR 490 with smooth surface
Jacket color:	black (RAL 9005)

Technical Data:

Peak operating voltage:	max. 48 V
Testing voltage:	conductor/conductor: 600 V conductor/shielding: 600 V
Min. bending radius	
fixed installation:	2 x O.D. (one single bend)
free movement:	10 x O.D.
Temperature range cable:	
static*:	-50/+150°C
flexible*:	-45/+150°C
Temperature range conductor:	up to +180°C (short time use up to +205°C)
Oil resistance:	very good - TMPU acc. to EN 50363-10-2
Fuel resistance:	good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

*+150 °C – up to 3,000 hours

Outstanding features:

- Temperature resistance up to +150 °C (up to 3,000 hours)
- high flexibility and high abrasion resistance
- high robustness
- low capacity
- smallest bending radius
- easy harnessing
- small outer diameter
- fuel resistant

item no.	no. of conductors	outer-ø ± 5% inch	outer-ø ± 5% mm	cable weight ≈lbs/mft
▶ AWG 34/7				
38370234	2	0.087	2.2	5
38370334	3	0.091	2.3	5
38370434	4	0.094	2.4	6
38370634	6	0.102	2.6	7
38370834	8	0.114	2.9	9
▶ AWG 32/7				
38370232	2	0.091	2.3	5
38370332	3	0.091	2.3	6
38370432	4	0.098	2.5	7
38370632	6	0.110	2.8	9
38370832	8	0.122	3.1	11

item no.	no. of conductors	outer-ø ± 5% inch	outer-ø ± 5% mm	cable weight ≈lbs/mft
▶ AWG 30/7				
38370230	2	0.094	2.4	6
38370330	3	0.098	2.5	7
38370430	4	0.102	2.6	8
38370630	6	0.114	2.9	10
38370830	8	0.126	3.2	12
▶ AWG 28/7				
38370228	2	0.102	2.6	7
38370328	3	0.106	2.7	9
38370428	4	0.110	2.8	9
38370628	6	0.122	3.1	13
38370828	8	0.150	3.8	17

item no.	no. of conductors	outer-ø ± 5% inch	outer-ø ± 5% mm	cable weight ≈lbs/mft
▶ AWG 26/7				
38370226	2	0.118	3.0	10
38370326	3	0.122	3.1	11
38370426	4	0.130	3.3	13
38370626	6	0.154	3.9	19
38370826	8	0.173	4.4	24
▶ AWG 24/7				
38370224	2	0.126	3.2	11
38370324	3	0.130	3.3	13
38370424	4	0.150	3.8	17
38370624	6	0.173	4.4	24
38370824	8	0.189	4.8	30

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



Possible on request:

- harnessed cable
- also available as HV thermo cable type K (1-channel and 4-channel)
- also available without copper braiding



Sensor Cables

Sensor plus 250

High temperature resistant PFA insulated sensor cable up to +250°C



Marking for Sensor plus 250 38390432:

SAB BRÖCKSKES · D-VIERSEN · Sensor plus 250 4 x AWG 32/7 3839-0432

Application: High temperature resistant sensor cable up to max. +250°C for measuring and testing technology. Supply cable for miniature sensors. Strain gauge supply cable for smallest bending radii. Connecting cable for modular technology.

Construction:

Conductor:	silver-plated copper strands
Insulation:	PFA
Color code:	DIN 47100, see below
Wrapping:	foil
Shielding:	tinned copper braiding, optical coverage ≥ 85%
Jacket material:	PFA
Jacket color:	black (RAL 9005)

Outstanding features:



- Temperature resistance up to +250°C
- low capacity
- absolutely weather resistant
- high abrasion resistance
- very good chemical resistance
- small outer diameter

Technical Data:

Peak operating voltage:	max. 48 V
Testing voltage:	conductor/conductor: 600 V conductor/shielding: 600 V
Min. bending radius	
<i>fixed installation:</i>	2 x O.D. (one single bend)
<i>free movement:</i>	10 x O.D.
Temperature range:	
<i>static:</i>	-90/+250°C
<i>flexible:</i>	-55/+250°C
Dielectric constant:	approx. 2.1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
Oil resistance:	very good
Hydraulic oil resistance:	very good
Fuel resistance:	very good
Battery acid resistance:	very good
UV resistance:	very good
Ozone resistance:	very good
Saltwater resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		± 5% inch	± 5% mm	
▶ AWG 34/7 38390234	2	0.071	1.8	5
▶ AWG 32/7 38390432	4	0.083	2.1	7
▶ AWG 30/7 38390330	3	0.083	2.1	7
▶ AWG 28/7 38390628	6	0.106	2.7	13

Other dimensions and colors are available on request

DIN 47100 color code:

#1- white, #2- brown, #3- green, #4- yellow, #5- gray, #6- pink



Possible on request:

- harnessed cable
- also available without copper braiding