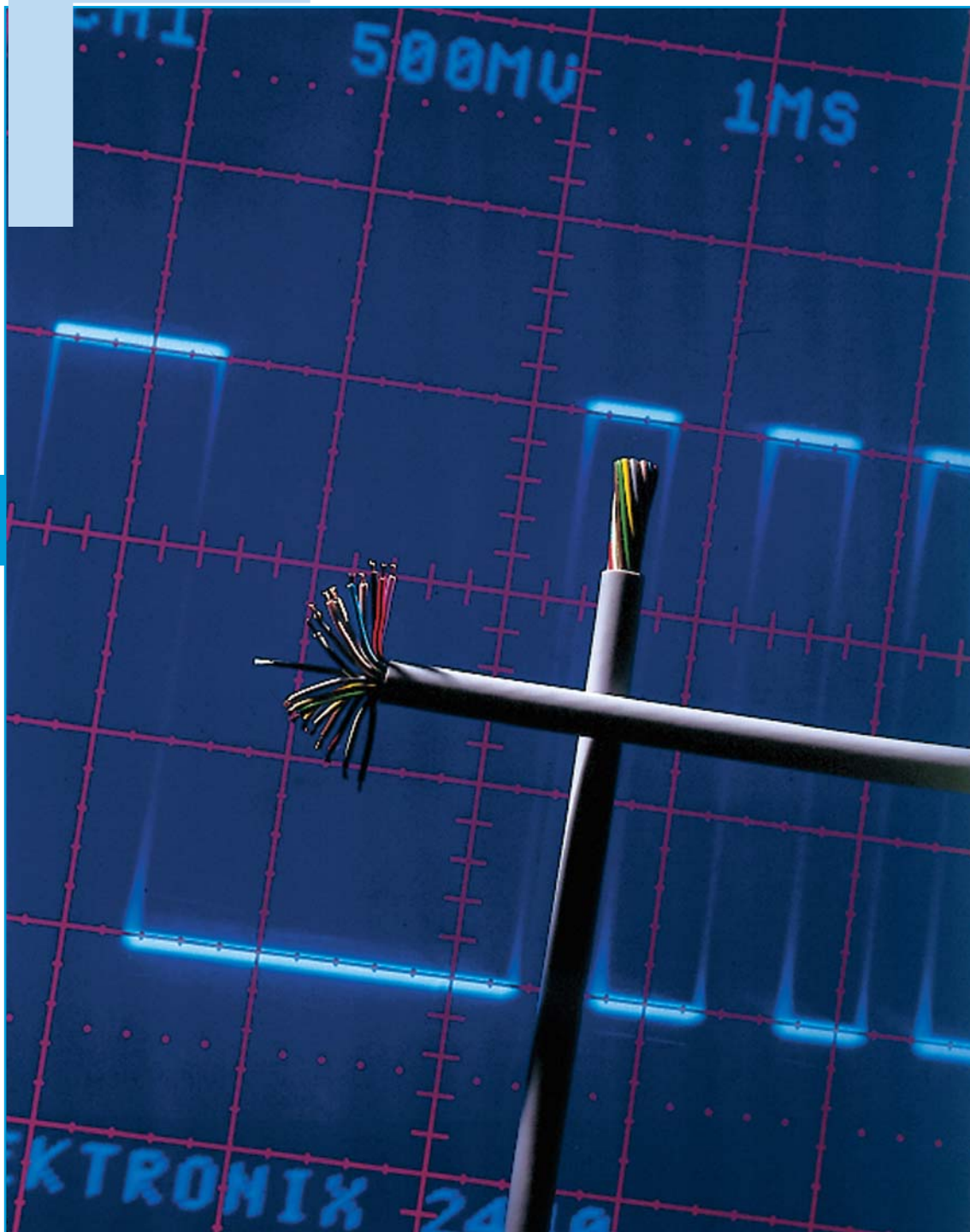


# Data Cables

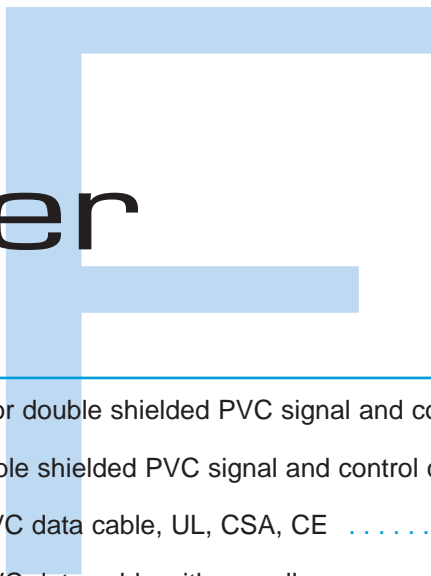


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Web site: [www.sabcable.com](http://www.sabcable.com)

# Chapter



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F  
2

## Applications

■ Modern electronics and miniaturized appliances require data cables with the smallest cross sections, best screenings and highest flexibility. SAB data cables meet these requirements to a high degree. Different types of screenings, i.e. single or double screens, 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.

### ■ 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 techniques
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
SRY D 311 SRY D 321 C SRY D 351 C (B) TP	Measuring, control and voice signals, e.g. in medicine technologies, in scales and low-voltage switchboard plant engineering, in control and measuring technologies, for interference-prone operation controls, 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

### ■ FEP insulated coaxial cables

RG 179 FEP is a high temperature coax cable with an excellent resistance to chemicals and solvents. This cable is suitable for attenuation poor and distortionless transmission of signals referring to RG 179 (75  $\Omega$  impedance). RG 316 FEP is a FEP insulated coax cable with TPE outer jacket in reference to RG 316 (50  $\Omega$  impedance). The TPE outer jacket is especially used where plugs are tightly encapsulated.

#### Exemplary applications:

RG 179 FEP	High broadband transmission
RG 316 FEP	Telecommunication e. g. cell phone and industrial communication

## Selection index

		Cable type	DC 300 DS	DC 300 DS TP	SRY D 311	SRY D 321 C	SRY D 351 C (B) TP	LIYY	LIYCY	LIYCY (B) TP	LIYDY-CY TP	RG 179 FEP	RG 316 FEP
Basic construction	Bare copper strands with reference to DIN VDE 0812							x	x	x	x		
	Bare copper strands acc. to. ASTM B 286				x	x	x						
	Tinned copper strands acc. to. ASTM B 286	x	x										
	Tinned copper strands, fine wires												x
	Silver-plated strands, fine wires											x	
	Overall copper screen	x	x		x	x			x	x	x		x
	Silver-plated screen											x	
	No coupling of individual signals, low influence of nighboured cable circuits, effective suppression of crosstalk and side-to-side crosstalk effects			x			x			x	x		
Temperature range static*	Drain wire	x	x			x				x	x		
	+ 180 °C												
	+ 90 °C												
	+ 80 °C												
	+ 70 °C												
	- 30 °C												
	- 50 °C												
- 90 °C													
Voltage	Voltage UL/CSA 300 V	x	x	x	x	x							
	Peak operating voltage max. 350 V	x	x										
	Peak operating voltage < 0.25 mm <sup>2</sup> = max. 350 V							x	x	x	x		
	Peak operating voltage ≥ 0.25 mm <sup>2</sup> = max. 500 V												
	Peak operating voltage 900 V											x	x
	Testing voltage < 0.25 mm <sup>2</sup> = 800 V							x	x	x	x		
	Testing voltage ≥ 0.25 mm <sup>2</sup> = 1200 V												
	Testing voltage 800 V	x	x										
Standards and approvals	Testing voltage 1500 V				x	x	x						
	Testing voltage 2000 V											x	x
	Burning characteristics: flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2	x	x	x	x	x	x	x	x	x	x		
	Burning characteristics: flame retardant and self-extinguishing acc. to UL VW1	x	x										
Charac-teristics	Burning characteristics: flame retardant and self-extinguishing acc. to CSA FT1 FT2	x	x	x	x	x							
	UL/CSA Approval	x	x	x	x	x							
	Oil resistance acc. to internal standard	x	x	x	x	x	x	x	x	x	x		
	Very good chem. resistance											x	
	Flexibility			x	x	x	x	x	x	x			

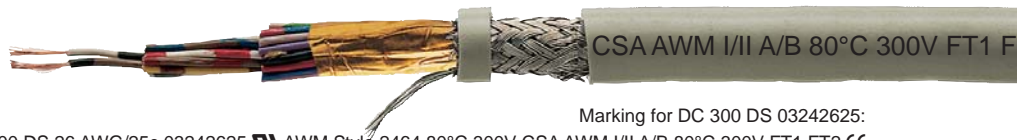
Temperature range:



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



## DC 300 DS Multiconductor double shielded PVC signal and control cable



SAB BRÖCKSKES · D-VIERSEN · 03242526 DC 300 DS 26 AWG/25c 03242625 AWM Style 2464 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2

Marking for DC 300 DS 03242625:

DC 300 DS is a double shielded UL recognized, CSA approved multiconductor signal and control cable for use in American designed computer, data transmission and office equipment, process control and instrumentation.

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to ASTM B 286
<b>Insulation:</b>	semi-rigid PVC
<b>Color code:</b>	color code US 2 see see page N/25
<b>Stranding:</b>	in layers
<b>Screen:</b>	double screen, Alu-foil, tinned copper braiding with tinned drain wire (AWG 24/7)
<b>Jacket material:</b>	PVC, YM1 acc. to DIN VDE 0207 part 5
<b>Jacket color:</b>	gray

### Technical data:

<b>Voltage:</b>	<b>UL/CSA:</b> 300 V	
<b>Peak operating voltage:</b>	max. 350 V	
<b>Testing voltage:</b>	800 V	
<b>Min. bending radius</b>		
<i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>UL/CSA:</b>	
<i>static:</i>	-30/+70 °C	up to +80 °C
<i>flexing:</i>	-5/+70 °C	up to +80 °C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW1, CSA FT1 FT2	
<b>Oil resistance:</b>	acc. to internal standard, see page N/27	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28	

### Outstanding features:

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

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
<b>▶ AWG 28/7</b>				
03242802	2	0.169	4.3	14
03242803	3	0.173	4.4	16
03242804	4	0.181	4.6	17
03242805	5	0.193	4.9	20
03242807	7	0.201	5.1	23
03242810	10	0.236	6.0	29
03242812	12	0.244	6.2	32
03242814	14	0.252	6.4	34
03242818	18	0.272	6.9	41
03242825	25	0.311	7.9	50
<b>▶ AWG 26/7</b>				
03242602	2	0.177	4.5	16
03242603	3	0.181	4.6	17
03242604	4	0.193	4.9	20
03242605	5	0.201	5.1	24
03242607	7	0.213	5.4	26
03242610	10	0.252	6.4	34
03242612	12	0.260	6.6	38
03242614	14	0.268	6.8	41
03242618	18	0.291	7.4	50
03242625	25	0.335	8.5	63

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
<b>▶ AWG 24/7</b>				
03242402	2	0.185	4.7	18
03242403	3	0.193	4.9	20
03242404	4	0.201	5.1	24
03242405	5	0.217	5.5	28
03242407	7	0.228	5.8	32
03242410	10	0.272	6.9	42
03242412	12	0.280	7.1	47
03242414	14	0.287	7.3	52
03242418	18	0.315	8.0	64
03242425	25	0.366	9.3	82

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
<b>▶ AWG 22/7</b>				
03242202	2	0.197	5.0	21
03242203	3	0.205	5.2	25
03242204	4	0.217	5.5	28
03242205	5	0.232	5.9	34
03242207	7	0.248	6.3	40
03242210	10	0.295	7.5	54
03242212	12	0.303	7.7	60
03242214	14	0.315	8.0	67
03242218	18	0.346	8.8	83
03242225	25	0.406	10.3	110

Other dimensions and colors are possible on request.

very good  
EMC

# DATA CABLES



## DC 300 DS TP Multipair double shielded PVC signal and control cable



Marking for DC 300 DS TP 03842603:

SAB BRÖCKSKES · D-VIERSEN · 03840326 DC 300 DS TP 26 AWG/3pr 03842603  AWM Style 2464 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

DC 300 DS TP is a double shielded UL recognized, CSA approved multipair signal and control cable for use in American designed computer, data transmission and office equipment, process control and instrumentation.

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to ASTM B 286
<b>Insulation:</b>	semi-rigid PVC
<b>Color code:</b>	color code US 3 see see page N/25
<b>Stranding:</b>	conductors twisted to pairs, pairs twisted in layers
<b>Screen:</b>	double screen, Alu-foil, tinned copper braiding with tinned drain wire (AWG 24/7)
<b>Jacket material:</b>	PVC, YM1 acc. to DIN VDE 0207 part 5
<b>Jacket color:</b>	gray

### Outstanding features:

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

### Technical data:

<b>Voltage:</b>	<b>UL/CSA:</b> 300 V	
<b>Peak operating voltage:</b>	max. 350 V	
<b>Testing voltage:</b>	800 V	
<b>Min. bending radius</b>	<i>fixed installation:</i>	5 x O.D.
	<i>free movement:</i>	10 x O.D.
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<i>static:</i>	<b>UL/CSA:</b> up to +80 °C
	<i>flexing:</i>	-5/+70 °C up to +80 °C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW1, CSA FT1, FT2	
<b>Oil resistance:</b>	acc. to internal standard, see page N/27	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28	

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
<b>▶ AWG 28/7</b>				
03842802	2	0.201	5.1	19
03842803	3	0.217	5.5	23
03842804	4	0.240	6.1	27
03842805	5	0.256	6.5	31
03842807	7	0.272	6.9	36
03842810	10	0.311	7.9	45
03842814	14	0.354	9.0	57
03842818	18	0.378	9.6	70
03842825	25	0.425	10.8	87
<b>▶ AWG 26/7</b>				
03842602	2	0.213	5.4	22
03842603	3	0.232	5.9	27
03842604	4	0.260	6.6	32
03842605	5	0.276	7.0	38
03842607	7	0.287	7.3	42
03842610	10	0.335	8.5	56
03842614	14	0.386	9.8	73
03842618	18	0.413	10.5	89
03842625	25	0.465	11.8	112

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
<b>▶ AWG 24/7</b>				
03842402	2	0.228	5.8	26
03842403	3	0.248	6.3	32
03842404	4	0.280	7.1	39
03842405	5	0.299	7.6	46
03842407	7	0.311	7.9	54
03842410	10	0.362	9.2	71
03842414	14	0.421	10.7	94
03842418	18	0.453	11.5	116
03842425	25	0.508	12.9	148

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
<b>▶ AWG 22/7</b>				
03842202	2	0.248	6.3	32
03842203	3	0.268	6.8	40
03842204	4	0.303	7.7	48
03842205	5	0.327	8.3	58
03842207	7	0.343	8.7	70
03842210	10	0.402	10.2	95
03842214	14	0.465	11.8	124
03842218	18	0.500	12.7	156
03842225	25	0.579	14.7	207

Other dimensions and colors are possible on request.



also available  
with color code  
DIN 47100



## SRY D 311 Semi-rigid PVC data cable



2464 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2

Marking for SRY D 311 03112225

SAB BRÖCKSKES · D-VIERSEN · 03112522 SRY D 311 22 AWG/25c 03112225 AWM Style 2464 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2

SRY D 311 is a UL recognized, CSA approved unshielded, multiconductor signal and control cable for use in measuring, control and voice signals primarily used in medical technologies, scales and low voltage switchboard and machinery, in control and measuring technologies. For the North American market the conductors of this cable are color coded in acc to US 2.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to. ASTM B 286
<b>Insulation:</b>	semi-rigid PVC
<b>Color code:</b>	color code US 2 see see page N/25
<b>Stranding:</b>	in layers
<b>Jacket material:</b>	PVC, YM1 acc. to DIN VDE 0207 part 5
<b>Jacket color:</b>	gray

### Technical data:

<b>Voltage:</b>	<b>UL/CSA:</b> 300 V	
<b>Testing voltage:</b>	1500 V	
<b>Min. bending radius</b>		
<i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA</b>
<i>static:</i>	-30/+70 °C	up to +80 °C
<i>flexing:</i>	-5/+70 °C	up to +80 °C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, CSA FT1 FT2	
<b>Oil resistance:</b>	acc. to internal standard, see page N/27	
<b>Chem. resistance:</b>	see page N/9	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28	

### Outstanding features:

- flexible
- small outer diameter
- small bending radius

item no.	no. of conductors	nominal outer- $\phi$ inch	mm	cable weight $\approx$ lbs/ft
<b>▶ AWG 26/7</b>				
03112602	2	0.142	3.6	11
03112603	3	0.150	3.8	13
03112604	4	0.157	4.0	14
03112605	5	0.169	4.3	17
03112607	7	0.181	4.6	20
03112608	8	0.205	5.2	24
03112612	12	0.224	5.7	30
03112616	16	0.248	6.3	38
03112618	18	0.260	6.6	41
03112625	25	0.307	7.8	54
<b>▶ AWG 24/7</b>				
03112402	2	0.154	3.9	13
03112403	3	0.161	4.1	15
03112404	4	0.169	4.3	18
03112405	5	0.185	4.7	22
03112407	7	0.197	5.0	26
03112408	8	0.224	5.7	30
03112412	12	0.248	6.3	40
03112416	16	0.272	6.9	50
03112418	18	0.283	7.2	55
03112425	25	0.335	8.5	72

item no.	no. of conductors	nominal outer- $\phi$ inch	mm	cable weight $\approx$ lbs/ft
<b>▶ AWG 22/7</b>				
03112202	2	0.165	4.2	16
03112203	3	0.173	4.4	19
03112204	4	0.185	4.7	23
03112205	5	0.201	5.1	28
03112207	7	0.217	5.5	34
03112208	8	0.244	6.2	40
03112212	12	0.272	6.9	52
03112216	16	0.299	7.6	67
03112218	18	0.315	8.0	74
03112225	25	0.370	9.4	98
<b>▶ AWG 20/19</b>				
03112002	2	0.185	4.7	22
03112003	3	0.193	4.9	27
03112004	4	0.209	5.3	32
03112005	5	0.224	5.7	38
03112007	7	0.244	6.2	53
03112012	12	0.311	7.9	77
03112018	18	0.362	9.2	110
03112025	25	0.488	12.4	153

item no.	no. of conductors	nominal outer- $\phi$ inch	mm	cable weight $\approx$ lbs/ft
<b>▶ AWG 18/19</b>				
03111802	2	0.205	5.2	29
03111803	3	0.213	5.4	36
03111804	4	0.232	5.9	44
03111805	5	0.252	6.4	53
03111807	7	0.272	6.9	69
03111812	12	0.350	8.9	110
03111818	18	0.417	10.6	160
03111825	25	0.516	13.1	216
<b>▶ AWG 16/19</b>				
03111602	2	0.217	5.5	34
03111603	3	0.228	5.8	43
03111604	4	0.244	6.2	52
03111605	5	0.268	6.8	62
03111607	7	0.291	7.4	83

Other dimensions and colors are possible on request.

also available  
with color code  
DIN 47100

# DATA CABLES



## SRY D 321 C Semi-rigid PVC data cable with overall copper screen

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



Marking for SRY D 321 C 03212207:

SAB BRÖCKSKES · D-VIERSEN · 03210722 SRY D 321 C 22 AWG/7c 03212207 AWM Style 2464 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

SRY D 321 C is a UL recognized, CSA approved tinned copper shielded multiconductor signal and control cable. This cable is especially used in medical technologies, scales and low voltage switchboard and machinery, in control and measuring technologies in high sensitive data processing systems or when EMI emissions need to be suppressed for the North American market the conductors of this cable are color coded in acc to US 2.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to. ASTM B 286
<b>Insulation:</b>	semi-rigid PVC
<b>Color code:</b>	color code US 2 see see page N/25
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Jacket material:</b>	PVC, YM1 acc. to DIN VDE 0207 part 5
<b>Jacket color:</b>	gray

### Technical data:

<b>Voltage:</b>	<b>UL/CSA:</b> 300 V	
<b>Testing voltage:</b>	1500 V	
<b>Min. bending radius</b>		
<i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA</b>
<i>static:</i>	-30/+70 °C	up to +80 °C
<i>flexing:</i>	-5/+70 °C	up to +80 °C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, CSA FT1 FT2	
<b>Oil resistance:</b>	acc. to internal standard, see page N/27	
<b>Chem. resistance:</b>	see page N/9	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28	

### Outstanding features:

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

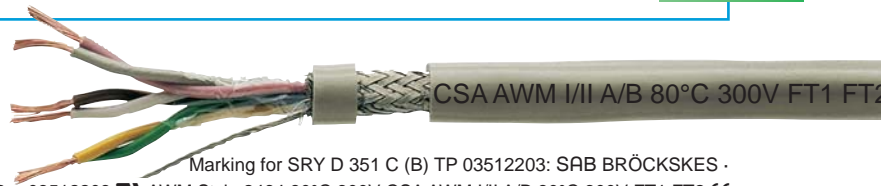
item no.	no. of conductors	nominal outer- inch	outer- mm	cable weight ≈ lbs/mft	item no.	no. of conductors	nominal outer- inch	outer- mm	cable weight ≈ lbs/mft	item no.	no. of conductors	nominal outer- inch	outer- mm	cable weight ≈ lbs/mft
<b>▶ AWG 26/7</b>					<b>▶ AWG 22/7</b>					<b>▶ AWG 18/19</b>				
03212602	2	0.161	4.1	15	03212202	2	0.185	4.7	19	03211802	2	0.220	5.6	32
03212603	3	0.169	4.3	16	03212203	3	0.193	4.9	23	03211803	3	0.232	5.9	38
03212604	4	0.177	4.5	17	03212204	4	0.205	5.2	27	03211804	4	0.248	6.3	48
03212605	5	0.185	4.7	21	03212205	5	0.220	5.6	32	03211805	5	0.272	6.9	58
03212607	7	0.201	5.1	24	03212207	7	0.236	6.0	38	03211807	7	0.291	7.4	73
03212608	8	0.224	5.7	30	03212208	8	0.264	6.7	46	03211808	8	0.339	8.6	88
03212612	12	0.244	6.2	35	03212210	10	0.283	7.2	52	03211812	12	0.378	9.6	118
03212616	16	0.268	6.8	43	03212212	12	0.291	7.4	58	03211818	18	0.437	11.1	169
03212618	18	0.280	7.1	48	03212216	16	0.319	8.1	74	03211825	25	0.528	13.4	233
03212625	25	0.323	8.2	61	03212218	18	0.343	8.7	83	<b>▶ AWG 16/19</b>				
<b>▶ AWG 24/7</b>					03212225	25	0.398	10.1	91	03211602	2	0.236	6.0	32
03212402	2	0.173	4.4	17	<b>▶ AWG 20/19</b>					03211603	3	0.244	6.2	36
03212403	3	0.181	4.6	19	03212002	2	0.205	5.2	25	03211604	4	0.264	6.7	45
03212404	4	0.193	4.9	22	03212003	3	0.213	5.4	30	03211605	5	0.287	7.3	56
03212405	5	0.205	5.2	26	03212004	4	0.228	5.8	36	03211607	7	0.311	7.9	68
03212407	7	0.217	5.5	31	03212005	5	0.244	6.2	42	03211608	8	0.358	9.1	87
03212408	8	0.244	6.2	36	03212006	6	0.264	6.7	50	03211612	12	0.402	10.2	106
03212410	10	0.260	6.6	40	03212007	7	0.264	6.7	54	Other dimensions and colors are possible on request.				
03212412	12	0.268	6.8	45	03212010	10	0.323	8.2	73					
03212416	16	0.291	7.4	56	03212012	12	0.335	8.5	85					
03212418	18	0.307	7.8	62	03212018	18	0.390	9.9	120					
03212425	25	0.362	9.2	83	03212025	25	0.457	11.6	160					



also available  
with color code  
DIN 47100



## SRY D 351 C (B) TP Semi-rigid paired PVC data cable with overall copper screen



D-VIERSEN · 03510322 SRY D 351 C (B) TP 22 AWG/3pr 03512203 AWM Style 2464 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2

SRY D 351 C (B) TP is an UL recognized, CSA approved tinned copper braid, twisted pairs multiconductor signal and control cable with drain wire. This cables is especially used in medical technologies, scales and low voltage switchboard and machinery, in control and measuring technologies in high sensitive data processing systems or when EMI emissions need to be suppressed. For the North American market the conductors of this cable are color coded in acc to US 3.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to. ASTM B 286
<b>Insulation:</b>	semi-rigid PVC
<b>Color code:</b>	color code US 3 see see page N/25
<b>Stranding:</b>	conductors twisted to pairs, pairs twisted in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding with a tinned copper drain wire (AWG 24/7)
<b>Jacket material:</b>	PVC, YM1 acc. to DIN VDE 0207 part 5
<b>Jacket color:</b>	gray

### Technical data:

<b>Voltage:</b>	<b>UL/CSA:</b> 300 V	
<b>Testing voltage:</b>	1500 V	
<b>Min. bending radius</b>		
<i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA</b>
<i>static:</i>	-30/+70 °C	up to +80 °C
<i>flexing:</i>	-5/+70 °C	up to +80 °C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, CSA FT1 FT2	
<b>Oil resistance:</b>	acc. to internal standard, see page N/27	
<b>Chem. resistance:</b>	see page N/9	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28	

### Outstanding features:

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

item no.	no. of pairs	nominal outer- $\phi$ inch	mm	cable weight $\approx$ lbs/mft
<b>▶ AWG 26/7</b>				
03512602	2	0.217	5.5	23
03512603	3	0.240	6.1	29
03512604	4	0.268	6.8	33
03512605	5	0.287	7.3	38
03512607	7	0.299	7.6	44
03512608	8	0.319	8.1	48
03512610	10	0.354	9.0	60
03512612	12	0.386	9.8	69
03512616	16	0.417	10.6	84
03512618	18	0.429	10.9	91
03512625	25	0.500	12.7	122
03512626	26	0.496	12.6	124
<b>▶ AWG 24/7</b>				
03512402	2	0.232	5.9	28
03512403	3	0.260	6.6	34
03512404	4	0.291	7.4	40
03512405	5	0.311	7.9	46
03512407	7	0.335	8.5	58
03512408	8	0.354	9.0	64
03512410	10	0.386	9.8	76
03512412	12	0.421	10.7	87
03512416	16	0.457	11.6	108
03512418	18	0.488	12.4	125
03512425	25	0.551	14.0	161
03512426	26	0.563	14.3	166

item no.	no. of pairs	nominal outer- $\phi$ inch	mm	cable weight $\approx$ lbs/mft
<b>▶ AWG 22/7</b>				
03512202	2	0.252	6.4	34
03512203	3	0.280	7.1	42
03512204	4	0.315	8.0	50
03512205	5	0.346	8.8	61
03512207	7	0.366	9.3	74
03512212	12	0.465	11.8	114
03512218	18	0.539	13.7	165
03512225	25	0.622	15.8	223
<b>▶ AWG 20/19</b>				
03512002	2	0.276	7.0	43
03512003	3	0.299	7.6	54
03512004	4	0.362	9.2	70
03512005	5	0.390	9.9	83
03512007	7	0.409	10.4	104
03512012	12	0.547	13.9	171
03512018	18	0.630	16.0	247
03512025	25	0.713	18.1	325

item no.	no. of pairs	nominal outer- $\phi$ inch	mm	cable weight $\approx$ lbs/mft
<b>▶ AWG 18/19</b>				
03511802	2	0.307	7.8	54
03511803	3	0.354	9.0	77
03511804	4	0.402	10.2	93
03511805	5	0.437	11.1	112
03511807	7	0.461	11.7	142
03511812	12	0.630	16.0	245
03511818	18	0.709	18.0	343
03511825	25	0.811	20.6	465
<b>▶ AWG 16/19</b>				
03511602	2	0.323	8.2	65
03511603	3	0.378	9.6	89
03511604	4	0.429	10.9	110
03511605	5	0.465	11.8	133
03511607	7	0.508	12.9	177
03511608	8	0.543	13.8	200

Other dimensions and colors are possible on request.

# DATA CABLES



## LiYY Multiconductor signal and control cable DIN Color code



Marking for LiYY 03053614:

SAB BRÖCKSKES · D-VIERSEN · LiYY 36 x 0.14 mm² CE

LiYY is an unshielded, multiconductor signal and control cable recommended for use in European designed computer, data transmission and office equipment, process control and instrumentation.

### Construction:

<b>Conductor:</b>	bare copper strands with reference to DIN VDE 0812
<b>Insulation:</b>	PVC, YI2 acc. to DIN VDE 0207 part 4
<b>Color code:</b>	with reference to DIN 47100
<b>Stranding:</b>	in layers
<b>Jacket material:</b>	PVC, YM1 acc. to DIN VDE 0207 part 5
<b>Jacket color:</b>	gray

### Outstanding features:

- flexible
- small outer diameter
- small bending radius

### Technical data:

<b>Peak operating voltage:</b>	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
<b>Testing voltage:</b>	< 24 AWG = 800 V ≥ 24 AWG = 1200 V
<b>Min. bending radius</b>	
fixed installation:	5 x O.D.
free movement:	10 x O.D.
<b>Capacitance:</b>	see page N/8
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
static:	-30/+70 °C
flexing:	-5/+70 °C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page N/27
<b>Chem. resistance:</b>	see page N/9
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

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item no.	no. of conductors	nominal outer- $\phi$ inch	nominal outer- $\phi$ mm	cable weight $\approx$ lbs/ft	item no.	no. of conductors	nominal outer- $\phi$ inch	nominal outer- $\phi$ mm	cable weight $\approx$ lbs/ft	item no.	no. of conductors	nominal outer- $\phi$ inch	nominal outer- $\phi$ mm	cable weight $\approx$ lbs/ft
<b>▶ 26 AWG (<math>\approx</math>18/38) • 0.14 mm<sup>2</sup></b>					<b>▶ 24 AWG (<math>\approx</math>14/34) • 0.25 mm<sup>2</sup></b>					<b>▶ 22 AWG (<math>\approx</math>7/30) • 0.34 mm<sup>2</sup></b>				
03050214	2	0.122	3.1	9	03050225	2	0.134	3.4	11	03050234	2	0.157	4.0	15
03050314	3	0.130	3.3	10	03050325	3	0.142	3.6	13	03050334	3	0.165	4.2	18
03050414	4	0.138	3.5	11	03050425	4	0.154	3.9	16	03050434	4	0.181	4.6	22
03050514	5	0.150	3.8	14	03050525	5	0.165	4.2	19	03050534	5	0.197	5.0	28
03050614	6	0.161	4.1	17	03050625	6	0.181	4.6	23	03050634	6	0.217	5.5	33
03050714	7	0.161	4.1	17	03050725	7	0.181	4.6	24	03050734	7	0.217	5.5	34
03050814	8	0.185	4.7	22	03050825	8	0.205	5.2	30	03050834	8	0.256	6.5	45
03051014	10	0.201	5.1	23	03050925	9	0.220	5.6	34	03051034	10	0.280	7.1	48
03051214	12	0.209	5.3	26	03051025	10	0.232	5.9	34	03051234	12	0.287	7.3	56
03051414	14	0.217	5.5	30	03051225	12	0.240	6.1	39	03051434	14	0.311	7.9	66
03051614	16	0.236	6.0	36	03051425	14	0.252	6.4	44	03051634	16	0.327	8.3	75
03051814	18	0.248	6.3	40	03051625	16	0.264	6.7	50	03051834	18	0.346	8.8	83
03052014	20	0.260	6.6	44	03051825	18	0.280	7.1	56	03052034	20	0.362	9.2	92
03052114	21	0.272	6.9	46	03052025	20	0.299	7.6	64	03052134	21	0.394	10.0	103
03052414	24	0.287	7.3	49	03052125	21	0.311	7.9	67	03052434	24	0.417	10.6	111
03052514	25	0.303	7.7	53	03052425	24	0.331	8.4	73	03052534	25	0.425	10.8	114
03052714	27	0.303	7.7	56	03052525	25	0.339	8.6	75	03052734	27	0.425	10.8	122
03053014	30	0.311	7.9	60	03052725	27	0.339	8.6	80	03053034	30	0.441	11.2	132
03053214	32	0.323	8.2	65	03053025	30	0.350	8.9	88	03053234	32	0.457	11.6	141
03053614	36	0.335	8.5	72	03053225	32	0.362	9.2	93	03053634	36	0.476	12.1	157
03054014	40	0.358	9.1	80	03053625	36	0.394	10.0	110	03054034	40	0.508	12.9	175
03054414	44	0.374	9.5	85	03054025	40	0.417	10.6	122	03054434	44	0.531	13.5	186
03054814	48	0.398	10.1	97	03054425	44	0.437	11.1	129	03054834	48	0.539	13.7	200
03055014	50	0.406	10.3	100	03054825	48	0.445	11.3	138	03055234	52	0.571	14.5	224
03055214	52	0.406	10.3	103	03055025	50	0.457	11.6	144	03055634	56	0.587	14.9	239
03055614	56	0.417	10.6	111	03055225	52	0.457	11.6	149	03056134	61	0.606	15.4	257
03056114	61	0.429	10.9	118	03055625	56	0.469	11.9	159					
					03056125	61	0.484	12.3	171					

Continued on next page

# DATA CABLES

## LiYY Multiconductor signal and control cable DIN Color code



Marking for LiYY 03053614:  
SAB BRÖCKSKES · D-VIERSEN · LIYY 36 x 0.14 mm² CE

LiYY is an unshielded, multiconductor signal and control cable recommended for use in European designed computer, data transmission and office equipment, process control and instrumentation.

### Construction:

<b>Conductor:</b>	bare copper strands with reference to DIN VDE 0812
<b>Insulation:</b>	PVC, Y12 acc. to DIN VDE 0207 part 4
<b>Color code:</b>	with reference to DIN 47100
<b>Stranding:</b>	in layers
<b>Jacket material:</b>	PVC, YM1 acc. to DIN VDE 0207 part 5
<b>Jacket color:</b>	gray

### Outstanding features:

- flexible
- small outer diameter
- small bending radius

### Technical data:

<b>Peak operating voltage:</b>	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
<b>Testing voltage:</b>	< 24 AWG = 800 V ≥ 24 AWG = 1200 V
<b>Min. bending radius</b>	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
<b>Capacitance:</b>	see page N/8
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>static:</i>	-30/+70 °C
<i>flexing:</i>	-5/+70 °C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page N/27
<b>Chem. resistance:</b>	see page N/9
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/ft
<b>▶ 20 AWG (≈ 16/32) • 0.50 mm<sup>2</sup></b>				
03050250	2	0,169	4,3	18
03050350	3	0,177	4,5	22
03050450	4	0,193	4,9	27
03050550	5	0,213	5,4	34
03050650	6	0,240	6,1	42
03050750	7	0,240	6,1	44
03050850	8	0,280	7,1	56
03051050	10	0,311	7,9	62
03051250	12	0,319	8,1	71
03051450	14	0,335	8,5	81
03051650	16	0,354	9,0	92
03051850	18	0,374	9,5	102
03052050	20	0,409	10,4	120
03052150	21	0,429	10,9	127
03052450	24	0,453	11,5	136
03052550	25	0,461	11,7	141
03052750	27	0,461	11,7	150
03053050	30	0,476	12,1	164
03053250	32	0,496	12,6	175
03053650	36	0,516	13,1	195
03054050	40	0,571	14,5	226
03054450	44	0,594	15,1	241
03054850	48	0,602	15,3	258
03055250	52	0,618	15,7	277
03055650	56	0,638	16,2	297
03056150	61	0,657	16,7	319

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/ft
<b>▶ 19 AWG (≈23/32) • 0.75 mm<sup>2</sup></b>				
03050275	2	0,193	4,9	25
03050375	3	0,205	5,2	30
03050475	4	0,232	5,9	39
03050575	5	0,252	6,4	48
03050675	6	0,276	7,0	56
03050775	7	0,276	7,0	60
03050875	8	0,327	8,3	78
03051075	10	0,358	9,1	85
03051275	12	0,370	9,4	98
03051475	14	0,406	10,3	118
03051675	16	0,425	10,8	133
03051875	18	0,449	11,4	149
03052175	21	0,492	12,5	175
03052475	24	0,524	13,3	188
03052775	27	0,535	13,6	208
03053075	30	0,571	14,5	236
03053275	32	0,591	15,0	252
03053675	36	0,614	15,6	280

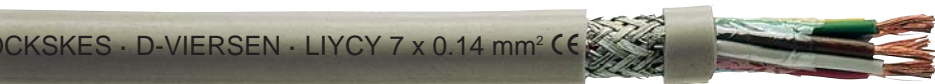
item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/ft
<b>▶ 18 AWG (≈30/32) • 1.00 mm<sup>2</sup></b>				
03050280	2	0,201	5,1	29
03050380	3	0,213	5,4	36
03050480	4	0,240	6,1	47
03050580	5	0,264	6,7	58
03050680	6	0,287	7,3	69
03050780	7	0,287	7,3	74
<b>▶ 16 AWG (≈ 27-29/30) • 1.50 mm<sup>2</sup></b>				
03050285	2	0,220	5,6	36
03050385	3	0,240	6,1	47
03050485	4	0,264	6,7	58
03050585	5	0,303	7,7	77
03050685	6	0,331	8,4	91
03050785	7	0,331	8,4	98

Other dimensions and colors are possible on request.

# DATA CABLES



## LIYCY Multiconductor signal and control cable overall braid DIN Color code



Marking for LIYCY 03150714:  
SAB BRÖCKSKES · D-VIERSEN · LIYCY 7 x 0.14 mm² CE

LIYCY is a shielded, multiconductor signal and control cable recommended for use in European designed computer, data transmission and office equipment, process control and instrumentation, where additional EMI protection is required.

### Construction:

<b>Conductor:</b>	bare copper strands with reference to DIN VDE 0812
<b>Insulation:</b>	PVC, YI2 acc. to DIN VDE 0207 part 4
<b>Color code:</b>	with reference to DIN 47100
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Jacket material:</b>	PVC, YM1 acc. to DIN VDE 0207 part 5
<b>Jacket color:</b>	gray

### Outstanding features:

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

### Technical data:

<b>Peak operating voltage:</b>	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
<b>Testing voltage:</b>	< 24 AWG = 800 V ≥ 24 AWG = 1200 V
<b>Min. bending radius</b> <i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
<b>Capacitance:</b>	see page N/8
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b> <i>static:</i>	-30/+70 °C
<i>flexing:</i>	-5/+70 °C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page N/27
<b>Chem. resistance:</b>	see page N/9
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors	nominal outer- $\phi$ inch	mm	cable weight $\approx$ lbs/ft
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#### ▶ 26 AWG ( $\approx$ 18/38) • 0.14 mm<sup>2</sup>

03150214	2	0.142	3.6	12
03150314	3	0.150	3.8	14
03150414	4	0.157	4.0	16
03150514	5	0.169	4.3	19
03150614	6	0.181	4.6	22
03150714	7	0.181	4.6	22
03150814	8	0.213	5.4	30
03151014	10	0.228	5.8	32
03151214	12	0.244	6.2	37
03151414	14	0.252	6.4	41
03151614	16	0.264	6.7	46
03151814	18	0.276	7.0	50
03152014	20	0.287	7.3	55
03152114	21	0.299	7.6	58
03152414	24	0.315	8.0	62
03152514	25	0.339	8.6	69
03152714	27	0.339	8.6	71
03153014	30	0.346	8.8	78
03153214	32	0.358	9.1	82
03153614	36	0.370	9.4	89
03154014	40	0.394	10.0	99
03154414	44	0.417	10.6	113
03154814	48	0.425	10.8	119
03155014	50	0.433	11.0	123
03155214	52	0.433	11.0	126
03155614	56	0.445	11.3	136
03156114	61	0.457	11.6	143

item no.	no. of conductors	nominal outer- $\phi$ inch	mm	cable weight $\approx$ lbs/ft
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#### ▶ 24 AWG ( $\approx$ 14/34) • 0.25 mm<sup>2</sup>

03150125	1	0.106	2.7	9
03150225	2	0.154	3.9	15
03150325	3	0.161	4.1	17
03150425	4	0.173	4.4	21
03150525	5	0.193	4.9	26
03150625	6	0.209	5.3	30
03150725	7	0.209	5.3	31
03150825	8	0.240	6.1	40
03150925	9	0.256	6.5	45
03151025	10	0.260	6.6	44
03151225	12	0.268	6.8	49
03151425	14	0.280	7.1	54
03151525	15	0.291	7.4	60
03151625	16	0.291	7.4	61
03151825	18	0.307	7.8	69
03152025	20	0.335	8.5	79
03152125	21	0.346	8.8	84
03152425	24	0.366	9.3	89
03152525	25	0.374	9.5	93
03152725	27	0.374	9.5	97
03153025	30	0.386	9.8	106
03153225	32	0.398	10.1	112
03153625	36	0.421	10.7	131
03154025	40	0.445	11.3	146
03154425	44	0.465	11.8	154
03154825	48	0.488	12.4	171
03155025	50	0.500	12.7	176
03155225	52	0.500	12.7	181
03155625	56	0.512	13.0	194
03156125	61	0.528	13.4	206

item no.	no. of conductors	nominal outer- $\phi$ inch	mm	cable weight $\approx$ lbs/ft
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#### ▶ 22 AWG ( $\approx$ 7/30) • 0.34 mm<sup>2</sup>

03150234	2	0.177	4.5	19
03150334	3	0.193	4.9	24
03150434	4	0.209	5.3	29
03150534	5	0.224	5.7	35
03150634	6	0.252	6.4	43
03150734	7	0.252	6.4	44
03150834	8	0.283	7.2	54
03151034	10	0.307	7.8	60
03151234	12	0.315	8.0	67
03151434	14	0.346	8.8	81
03151634	16	0.362	9.2	90
03151834	18	0.382	9.7	101
03152034	20	0.398	10.1	110
03152134	21	0.421	10.7	124
03152434	24	0.445	11.3	134
03152734	27	0.453	11.5	145
03153034	30	0.469	11.9	157
03153234	32	0.500	12.7	173
03153634	36	0.520	13.2	192
03154034	40	0.551	14.0	212
03154234	42	0.551	14.0	219
03154434	44	0.575	14.6	224
03154834	48	0.583	14.8	239
03155034	50	0.622	15.8	270
03155234	52	0.622	15.8	277
03155634	56	0.638	16.2	294
03156134	61	0.657	16.7	312

Continued on next page

# DATA CABLES

## LIYCY Multiconductor signal and control cable overall braid DIN Color code



Marking for LIYCY 03150714:

SAB BRÖCKSKES · D-VIERSEN · LIYCY 7 x 0.14 mm<sup>2</sup> CE

LIYCY is a shielded, multiconductor signal and control cable recommended for use in European designed computer, data transmission and office equipment, process control and instrumentation, where additional EMI protection is required.

### Construction:

<b>Conductor:</b>	bare copper strands with reference to DIN VDE 0812
<b>Insulation:</b>	PVC, Y12 acc. to DIN VDE 0207 part 4
<b>Color code:</b>	with reference to DIN 47100
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Jacket material:</b>	PVC, YM1 acc. to DIN VDE 0207 part 5
<b>Jacket color:</b>	gray

### Outstanding features:

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

### Technical data:

<b>Peak operating voltage:</b>	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
<b>Testing voltage:</b>	< 24 AWG = 800 V ≥ 24 AWG = 1200 V
<b>Min. bending radius</b>	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
<b>Capacitance:</b>	see page N/8
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>static:</i>	-30/+70 °C
<i>flexing:</i>	-5/+70 °C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page N/27
<b>Chem. resistance:</b>	see page N/9
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

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item no.	no. of conductors	nominal outer- $\phi$ inch	mm	cable weight ≈ lbs/ft
<b>▶ 20 AWG (≈ 16/32) • 0.50 mm<sup>2</sup></b>				
03150150	1	0.126	3.2	13
03150250	2	0.197	5.0	24
03150350	3	0.205	5.2	28
03150450	4	0.220	5.6	34
03150550	5	0.248	6.3	43
03150650	6	0.268	6.8	50
03150750	7	0.268	6.8	52
03150850	8	0.307	7.8	67
03151050	10	0.346	8.8	77
03151250	12	0.354	9.0	86
03151450	14	0.370	9.4	96
03151650	16	0.390	9.9	109
03151850	18	0.417	10.6	128
03152050	20	0.437	11.1	140
03152150	21	0.457	11.6	151
03152450	24	0.496	12.6	167
03152550	25	0.504	12.8	172
03152750	27	0.504	12.8	181
03153050	30	0.520	13.2	197
03153250	32	0.539	13.7	209
03153650	36	0.559	14.2	231
03154050	40	0.622	15.8	280
03154250	42	0.622	15.8	288
03155050	50	0.669	17.0	327
03155250	52	0.669	17.0	336
03156150	61	0.709	18.0	380

item no.	no. of conductors	nominal outer- $\phi$ inch	mm	cable weight ≈ lbs/ft
<b>▶ 19 AWG (≈23/32) • 0.75 mm<sup>2</sup></b>				
03150175	1	0.138	3.5	15
03150275	2	0.220	5.6	30
03150375	3	0.240	6.1	38
03150475	4	0.260	6.6	46
03150575	5	0.280	7.1	56
03150675	6	0.303	7.7	67
03150775	7	0.303	7.7	69
03150875	8	0.362	9.2	91
03151075	10	0.394	10.0	101
03151275	12	0.413	10.5	123
03151475	14	0.433	11.0	136
03151675	16	0.453	11.5	155
03151875	18	0.488	12.4	177
03152175	21	0.535	13.6	206
03152475	24	0.567	14.4	224
03152775	27	0.579	14.7	244
03153075	30	0.622	15.8	288
03153275	32	0.642	16.3	304
03153675	36	0.665	16.9	333

item no.	no. of conductors	nominal outer- $\phi$ inch	mm	cable weight ≈ lbs/ft
<b>▶ 18 AWG (≈30/32) • 1.00 mm<sup>2</sup></b>				
03150180	1	0.142	3.6	17
03150280	2	0.228	5.8	34
03150380	3	0.248	6.3	43
03150480	4	0.268	6.8	53
03150580	5	0.291	7.4	65
03150680	6	0.315	8.0	76
03150780	7	0.315	8.0	81
<b>▶ 16 AWG (≈ 27-29/30) • 1.50 mm<sup>2</sup></b>				
03150185	1	0.150	3.8	21
03150285	2	0.256	6.5	46
03150385	3	0.268	6.8	53
03150485	4	0.291	7.4	66
03150585	5	0.339	8.6	88
03150685	6	0.366	9.3	104
03150785	7	0.366	9.3	110

Other dimensions and colors are possible on request.

# DATA CABLES



## LIYCY (B) TP Multipair signal and control cable overall braid DIN Color code



Marking for LIYCY (B) TP 03450325:

SAB BRÖCKSKES · D-VIERSEN · LIYCY (B) TP 3 x 2 x 0.25 mm<sup>2</sup> CE

LIYCY (B) TP is a shielded, multi-paired signal and control cable recommended for use in European designed computers, data transmission and office equipment, process controls and instrumentation, where additional EMI protection is required. Twisting the conductors in special paired assemblies provides interference suppression in analog or digital signals.

### Construction:

<b>Conductor:</b>	bare copper strands with reference to DIN VDE 0812
<b>Insulation:</b>	PVC, Y12 acc. to DIN VDE 0207 part 4
<b>Color code:</b>	with reference to DIN 47100
<b>Stranding:</b>	conductors twisted to pairs, pairs in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding with a tinned copper drain wire (22 AWG)
<b>Jacket material:</b>	PVC, YM1 acc. to DIN VDE 0207 part 5
<b>Jacket color:</b>	gray

### Technical data:

<b>Peak operating voltage:</b>	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
<b>Testing voltage:</b>	< 24 AWG = 800 V ≥ 24 AWG = 1200 V
<b>Min. bending radius</b> <i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
<b>Capacitance:</b>	see page N/8
<b>Radiation resistance:</b>	8 x 10 <sup>6</sup> cJ/kg
<b>Temperature range</b> <i>static:</i>	-30/+70 °C
<i>flexing:</i>	-5/+70 °C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page N/27
<b>Chem. resistance:</b>	see page N/9
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

### Outstanding features:

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

item no.	no. of pairs	nominal outer- inch	nominal outer- mm	cable weight ≈ lbs/mft	item no.	no. of pairs	nominal outer- inch	nominal outer- mm	cable weight ≈ lbs/mft	item no.	no. of pairs	nominal outer- inch	nominal outer- mm	cable weight ≈ lbs/mft
<b>▶ 26 AWG (≈18/38) • 0.14 mm<sup>2</sup></b>					<b>▶ 24 AWG (≈14/34) • 0.25 mm<sup>2</sup></b>					<b>▶ 20 AWG (≈ 16/32) • 0.50 mm<sup>2</sup></b>				
03450214	2	0.205	5.2	23	03450225	2	0.224	5.7	28	03450250	2	0.283	7.2	44
03450314	3	0.224	5.7	28	03450325	3	0.252	6.4	37	03450350	3	0.311	7.9	56
03450414	4	0.256	6.5	36	03450625	6	0.311	7.9	57	03450650	6	0.409	10.4	98
03450514	5	0.276	7.0	40	03450825	8	0.354	9.0	73	03450850	8	0.429	10.9	112
03450614	6	0.283	7.2	46	03451025	10	0.386	9.8	89	03451050	10	0.520	13.2	154
03450814	8	0.307	7.8	54	03451225	12	0.429	10.9	108	03451250	12	0.567	14.4	180
03451014	10	0.350	8.9	67	03451625	16	0.469	11.9	131	03451650	16	0.642	16.3	247
03451214	12	0.382	9.7	75	03451825	18	0.500	12.7	149	03451850	18	0.665	16.9	268
03451614	16	0.413	10.5	91	03452425	24	0.559	14.2	181	03452050	20	0.665	16.9	281
03451814	18	0.437	11.1	107	<b>▶ 22 AWG (≈7/30) • 0.34 mm<sup>2</sup></b>					03452450	24	0.748	19.0	330
03452014	20	0.437	11.1	110	03450234	2	0.268	6.8	38	<b>▶ 19 AWG (≈23/32) • 0.75 mm<sup>2</sup></b>				
03452414	24	0.504	12.8	136	03450334	3	0.291	7.4	48	03450275	2	0.335	8.5	62
03452514	25	0.504	12.8	139	03450434	4	0.346	8.8	67	03450375	3	0.370	9.4	75
03452814	28	0.516	13.1	149	03450534	5	0.374	9.5	78	03450675	6	0.492	12.5	146
03453014	30	0.543	13.8	159	03450634	6	0.382	9.7	86	03451275	12	0.673	17.1	259
03453614	36	0.575	14.6	185	03450834	8	0.417	10.6	97	03451675	16	0.732	18.6	324
03454014	40	0.587	14.9	199	03451234	12	0.528	13.4	151	03451875	18	0.760	19.3	360
03454414	44	0.642	16.3	234	03451634	16	0.575	14.6	188	03452475	24	0.858	21.8	444
03455214	52	0.669	17.0	261	03451834	18	0.594	15.1	206	Other dimensions and colors are possible on request.				
03456114	61	0.720	18.3	298	03452434	24	0.693	17.6	279					



# DATA CABLES

## LIYDY-CY TP Multipair signal and control cable overall braid DIN Color code



Marking for LIYDY-CY TP 03410425:  
SAB BRÖCKSKES · D-VIERSEN · LIYDY-CY TP 4 x 2 x 0.25 mm² CE

LIYDY-CY TP is a multi-paired, individually spiral shielded and overall braided shield and jacketed signal and control cable recommended for use in European designed computer, data transmission and office equipment, process control and instrumentation, where maximum EMI protection is required. Twisting the conductors in paired assemblies provides interference suppression in analog or digital signals. The additional braiding on the individual pairs prevents interference between transmission circuits.

### Construction:

<b>Conductor:</b>	bare copper strands with reference to DIN VDE 0812
<b>Insulation:</b>	PVC, Y12 acc. to DIN VDE 0207 part 4
<b>Color code:</b>	with reference to DIN 47100
<b>Stranding:</b>	2 conductors together (twisted to pairs)
<b>Screen:</b>	wrapped pair-wise with tinned copper wires
<b>Inner jacket:</b>	pair-wise PVC, YM1 acc. to DIN VDE 0207 part 5
<b>Stranding:</b>	pairs in concentric layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding with a tinned copper drain wire (equal to conductor section)
<b>Jacket material:</b>	PVC, YM1 acc. to DIN VDE 0207 part 5
<b>Jacket color:</b>	gray

### Technical data:

<b>Peak operating voltage:</b>	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
<b>Testing voltage:</b>	< 24 AWG = 800 V ≥ 24 AWG = 1200 V
<b>Min. bending radius</b>	
fixed installation:	5 x O.D.
free movement:	10 x O.D.
<b>Capacitance:</b>	see page N/8
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
static:	-30/+70 °C
flexing:	-5/+70 °C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page N/27
<b>Chem. resistance:</b>	see page N/9
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

### Outstanding features:

- very good EMC characteristic
- flexible

item no.	no. of pairs	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
<b>▶ 26 AWG (≈18/38) • 0.14 mm<sup>2</sup></b>				
03410214	2	0.319	8.1	55
03410314	3	0.362	9.2	75
03410414	4	0.390	9.9	85
03410614	6	0.465	11.8	126
03410814	8	0.543	13.8	165
03411014	10	0.583	14.8	200
03411214	12	0.614	15.6	222
03411414	14	0.618	15.7	237
03411614	16	0.681	17.3	279
03412414	24	0.803	20.4	384
<b>▶ 24 AWG (≈14/34) • 0.25 mm<sup>2</sup></b>				
03410225	2	0.331	8.4	62
03410325	3	0.370	9.4	82
03410425	4	0.457	11.6	118
03410625	6	0.547	13.9	162
03410825	8	0.594	15.1	210
03411025	10	0.650	16.5	238
03411225	12	0.665	16.9	261
03411425	14	0.685	17.4	286
03411625	16	0.736	18.7	323
03412425	24	0.933	23.7	476

item no.	no. of pairs	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
<b>▶ 22 AWG (≈7/30) • 0.34 mm<sup>2</sup></b>				
03410234	2	0.417	10.6	89
03410334	3	0.441	11.2	102
03410434	4	0.480	12.2	133
03410634	6	0.575	14.6	188
03410834	8	0.673	17.1	257
03411034	10	0.724	18.4	288
03411234	12	0.740	18.8	319
03411434	14	0.811	20.6	386
03411634	16	0.823	20.9	421
03412434	24	0.976	24.8	572

item no.	no. of pairs	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
<b>▶ 20 AWG (≈ 16/32) • 0.50 mm<sup>2</sup></b>				
03410250	2	0.425	10.8	95
03410350	3	0.441	11.2	112
03410450	4	0.528	13.4	157
03410650	6	0.591	15.0	216
03410850	8	0.717	18.2	291
03411050	10	0.783	19.9	339
03411250	12	0.819	20.8	373
03411450	14	0.843	21.4	408
03411650	16	0.909	23.1	468
03412450	24	1.043	26.5	645

Other dimensions and colors are possible on request.

# DATA CABLES



## RG 179 FEP FEP insulated coaxial cable with FEP jacket in reference to RG 179 (75 Ω)



RG 179 FEP is a high temperature coax cable with an excellent resistance to chemicals and solvents. For use in high broadband transmission this cable is suitable for attenuation poor and distortionless transmission of signals. In referring to RG 179 (75 Ω impedance).

### Construction:

<b>Conductor:</b>	silver-plated strands, fine wires
<b>Insulation:</b>	FEP
<b>Color code:</b>	nature
<b>Screen:</b>	silver-plated braiding
<b>Jacket material:</b>	FEP
<b>Jacket color:</b>	black

### Outstanding features:

- excellent resistance against chemicals and solvents
- excellent temperature resistance and flexibility at low temperatures
- excellent electrical insulating characteristics with low, nearly frequency-independent dielectric characteristics

### Technical data:

<b>Frequency range:</b>	max. 1 GHz
<b>Peak operating voltage:</b>	900 V
<b>Testing voltage:</b>	2000 V
<b>Min. bending radius:</b>	7.5 x O.D.
<b>Intrinsic impedance:</b>	75 Ω ± 5 Ω
<b>Spreading velocity:</b>	approx. 69%
<b>Capacitance:</b>	max. 75 pF/m
<b>Conductor resistance:</b>	max. 363 Ω/km
<b>Attenuation at 20 °C:</b>	50 MHz approx. 15 dB/100 m 100 MHz approx. 20 dB/100 m 400 MHz approx. 55 dB/100 m 900 MHz approx. 70 dB/100 m 1000 MHz approx. 85 dB/100 m 1800 MHz approx. 90 dB/100 m 3000 MHz approx. 110 dB/100 m
<b>Regularity:</b>	50 MHz up to 400 MHz > 26 dB 400 MHz up to 1000 MHz > 24 dB 1000 MHz up to 3000 MHz > 20 dB
<b>Temperature range</b> <i>static:</i>	-90/+180 °C
<i>flexing:</i>	-55/+180 °C
<b>Chem. resistance:</b>	very good against acids, halogens, bases, chlorinated solvents as well as organic and inorganic compounds
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

item no.	mm <sup>2</sup>	AWG	nominal outer- $\phi$ inch	mm	cable weight ≈ lbs/mft
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▶ 36200062    0.055    29    0.100 ± 0.006    2.54 ± 0.15    10

Other dimensions and colors are possible on request.

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# DATA CABLES

## RG 316 FEP FEP insulated coaxial cable with TPE jacket in reference to RG 316 (50 Ω)



RG 316 FEP is a FEP insulated coax cable with TPE outer jacket in reference to RG 316 (50 Ω impedance). For use in telecommunication e. g. cell phone and industrial communication. The TPE outer jacket is especially used where plugs are tight encapsulated.

### Construction:

<b>Conductor:</b>	tinned copper strands, fine wires
<b>Insulation:</b>	FEP
<b>Color code:</b>	nature
<b>Screen:</b>	tinned copper braiding
<b>Jacket material:</b>	TPE
<b>Jacket color:</b>	black

### Outstanding features:

- excellent temperature resistance and flexibility at low temperatures
- excellent electrical insulating characteristics with low, nearly frequency-independent dielectric characteristics

### Technical data:

<b>Frequency range:</b>	max. 3 GHz
<b>Peak operating voltage:</b>	900 V
<b>Testing voltage:</b>	2000 V
<b>Min. bending radius:</b>	7.5 x O.D.
<b>Intrinsic impedance:</b>	50 Ω ± 5 Ω
<b>Spreading velocity:</b>	approx. 69%
<b>Capacitance:</b>	max. 105 pF/m
<b>Conductor resistance:</b>	max. 363 Ω/km
<b>Attenuation at 20 °C:</b>	50 MHz approx. 19 dB/100 m 100 MHz approx. 27 dB/100 m 400 MHz approx. 57 dB/100 m 900 MHz approx. 90 dB/100 m 1000 MHz approx. 95 dB/100 m 1800 MHz approx. 140 dB/100 m 3000 MHz approx. 165 dB/100 m
<b>Regularity:</b>	50 MHz up to 400 MHz > 26 dB 400 MHz up to 1800 MHz > 23 dB 1800 MHz up to 3000 MHz > 15 dB
<b>Temperature range</b> <i>static:</i>	-50/+90 °C
<i>flexing:</i>	-40/+90 °C
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

item no.	mm <sup>2</sup>	AWG	nominal outer-Ø inch	mm	cable weight ≈ lbs/mft
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▶ 36000172      0.17      25      0.100 ± 0.002      2.55 ± 0.05      8

Other dimensions and colors are possible on request.