

# Data & Sensor Cables

## LiYY

Multi-conductor signal and control cable with DIN color code



BRÖCKSKES · D-VIERSEN · LiYY 32x0.25mm<sup>2</sup> CE



Marking for LiYY 3053225:

SAB BRÖCKSKES · D-VIERSEN · LiYY 32x0.25mm<sup>2</sup> CE

### Construction:

<b>Conductor:</b>	bare copper strands with reference to VDE 0812
<b>Insulation:</b>	PVC, Tl2 acc. to EN 50363-3 + VDE 0207-363-3
<b>Color code:</b>	DIN 47100, see page O/26
<b>Stranding:</b>	in layers
<b>Jacket material:</b>	PVC, TM2 acc. to EN 50363-4-1 + VDE 0207-363-4-1
<b>Jacket color:</b>	grayish tan (RAL 7032)

### 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>	conductor/conductor: 1500 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 O/9
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range:</b>	<i>static:</i> -30/+70°C <i>flexible:</i> -5/+70°C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
<b>Oil resistance:</b>	acc. to internal standard, see page O/29
<b>Chemical resistance:</b>	see page O/11
<b>Approvals:</b>	CE, EAC, RoHS
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors	nominal outer-ø ± 5% inch	± 5% mm	cable weight ≈lbs/mft
<b>▶ 26 AWG (≈ 18/38) ▪ 0.14 mm<sup>2</sup></b>				
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	nominal outer-ø ± 5% inch	± 5% mm	cable weight ≈lbs/mft
<b>▶ 24 AWG (≈ 14/34) ▪ 0.25 mm<sup>2</sup></b>				
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	nominal outer-ø ± 5% inch	± 5% mm	cable weight ≈lbs/mft
<b>▶ 22 AWG (≈ 7/30) ▪ 0.34 mm<sup>2</sup></b>				
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

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item no.	no. of conductors	nominal outer-ø		cable weight
		± 5% inch	± 5% mm	≈lbs/mft
<b>▶ 20 AWG (≈ 16/32) ▪ 0.50 mm<sup>2</sup></b>				
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	nominal outer-ø		cable weight
		± 5% inch	± 5% mm	≈lbs/mft
<b>▶ 19 AWG (≈ 23/32) ▪ 0.75 mm<sup>2</sup></b>				
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	nominal outer-ø		cable weight
		± 5% inch	± 5% mm	≈lbs/mft
<b>▶ 18 AWG (≈ 30/32) ▪ 1.00 mm<sup>2</sup></b>				
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
<b>▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm<sup>2</sup></b>				
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

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