

DATA & SENSOR CABLES

LiYY Multi-conductor 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, multi-conductor signal and control cable recommended for use in European designed computer, data transmission and office equipment, process control and instrumentation.

Construction:

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

Outstanding features:

- flexible
- small outer diameter
- small bending radius

Technical data:

Peak operating voltage:	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
Testing voltage:	< 24 AWG = 800 V ≥ 24 AWG = 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 + EN 60332-1-2
Oil resistance:	acc. to internal standard, see page O/28
Chemical resistance:	see page O/10
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/29

item no.	no. of conductors	nominal outer- ϕ inch	mm	cable weight ≈ lbs/mft
▶ 26 AWG (≈18/38) • 0.14 mm²				
03050214	2	0.122	3.1	9
03050314	3	0.130	3.3	10
03050414	4	0.138	3.5	11
03050514	5	0.150	3.8	14
03050614	6	0.161	4.1	17
03050714	7	0.161	4.1	17
03050814	8	0.185	4.7	22
03051014	10	0.201	5.1	23
03051214	12	0.209	5.3	26
03051414	14	0.217	5.5	30
03051614	16	0.236	6.0	36
03051814	18	0.248	6.3	40
03052014	20	0.260	6.6	44
03052114	21	0.272	6.9	46
03052414	24	0.287	7.3	49
03052514	25	0.303	7.7	53
03052714	27	0.303	7.7	56
03053014	30	0.311	7.9	60
03053214	32	0.323	8.2	65
03053614	36	0.335	8.5	72
03054014	40	0.358	9.1	80
03054414	44	0.374	9.5	85
03054814	48	0.398	10.1	97
03055014	50	0.406	10.3	100
03055214	52	0.406	10.3	103
03055614	56	0.417	10.6	111
03056114	61	0.429	10.9	118

item no.	no. of conductors	nominal outer- ϕ inch	mm	cable weight ≈ lbs/mft
▶ 24 AWG (≈14/34) • 0.25 mm²				
03050225	2	0.134	3.4	11
03050325	3	0.142	3.6	13
03050425	4	0.154	3.9	16
03050525	5	0.165	4.2	19
03050625	6	0.181	4.6	23
03050725	7	0.181	4.6	24
03050825	8	0.205	5.2	30
03050925	9	0.220	5.6	34
03051025	10	0.232	5.9	34
03051225	12	0.240	6.1	39
03051425	14	0.252	6.4	44
03051625	16	0.264	6.7	50
03051825	18	0.280	7.1	56
03052025	20	0.299	7.6	64
03052125	21	0.311	7.9	67
03052425	24	0.331	8.4	73
03052525	25	0.339	8.6	75
03052725	27	0.339	8.6	80
03053025	30	0.350	8.9	88
03053225	32	0.362	9.2	93
03053625	36	0.394	10.0	110
03054025	40	0.417	10.6	122
03054425	44	0.437	11.1	129
03054825	48	0.445	11.3	138
03055025	50	0.457	11.6	144
03055225	52	0.457	11.6	149
03055625	56	0.469	11.9	159
03056125	61	0.484	12.3	171

item no.	no. of conductors	nominal outer- ϕ inch	mm	cable weight ≈ lbs/mft
▶ 22 AWG (≈7/30) • 0.34 mm²				
03050234	2	0.157	4.0	15
03050334	3	0.165	4.2	18
03050434	4	0.181	4.6	22
03050534	5	0.197	5.0	28
03050634	6	0.217	5.5	33
03050734	7	0.217	5.5	34
03050834	8	0.256	6.5	45
03051034	10	0.280	7.1	48
03051234	12	0.287	7.3	56
03051434	14	0.311	7.9	66
03051634	16	0.327	8.3	75
03051834	18	0.346	8.8	83
03052034	20	0.362	9.2	92
03052134	21	0.394	10.0	103
03052434	24	0.417	10.6	111
03052534	25	0.425	10.8	114
03052734	27	0.425	10.8	122
03053034	30	0.441	11.2	132
03053234	32	0.457	11.6	141
03053634	36	0.476	12.1	157
03054034	40	0.508	12.9	175
03054434	44	0.531	13.5	186
03054834	48	0.539	13.7	200
03055234	52	0.571	14.5	224
03055634	56	0.587	14.9	239
03056134	61	0.606	15.4	257

Continued on next page

DATA & SENSOR CABLES



LiYY Multi-conductor 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, multi-conductor signal and control cable recommended for use in European designed computer, data transmission and office equipment, process control and instrumentation.

Construction:

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

Outstanding features:

- flexible
- small outer diameter
- small bending radius

Technical data:

Peak operating voltage:	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
Testing voltage:	< 24 AWG = 800 V ≥ 24 AWG = 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 + EN 60332-1-2
Oil resistance:	acc. to internal standard, see page O/28
Chemical resistance:	see page O/10
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/29

item no.	no. of conductors	nominal outer- ϕ inch	nominal outer- ϕ mm	cable weight \approx lbs/mft
▶ 20 AWG (\approx 16/32) • 0.50 mm²				
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- ϕ inch	nominal outer- ϕ mm	cable weight \approx lbs/mft
▶ 19 AWG (\approx23/32) • 0.75 mm²				
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- ϕ inch	nominal outer- ϕ mm	cable weight \approx lbs/mft
▶ 18 AWG (\approx30/32) • 1.00 mm²				
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
▶ 16 AWG (\approx 27-29/30) • 1.50 mm²				
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.