

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:

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
Wrapping:	PETP foil
Screen:	tinned copper braiding
Jacket material:	PVC, YM1 acc. to DIN VDE 0207 part 5
Jacket color:	gray

Outstanding features:

- good EMC characteristic
- 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	
fixed installation:	5 x O.D.
free movement:	10 x O.D.
Capacitance:	see page N/8
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range	
static:	-30/+70 °C
flexing:	-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 N/27
Chem. resistance:	see page N/9
Color code:	see see page N/24
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mt
▶ 26 AWG (≈18/38) • 0.14 mm ²				
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-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mt
▶ 24 AWG (≈14/34) • 0.25 mm ²				
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-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mt
▶ 22 AWG (≈7/30) • 0.34 mm ²				
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

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

Outstanding features:

- ▶ good EMC characteristic
- ▶ 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 N/8
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range	
<i>static:</i>	-30/+70 °C
<i>flexing:</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 N/27
Chem. resistance:	see page N/9
Color code:	see see page N/24
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mt
▶ 20 AWG (≈ 16/32) • 0.50 mm²				
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-ø inch	mm	cable weight ≈ lbs/mt
▶ 19 AWG (≈ 23/32) • 0.75 mm²				
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-ø inch	mm	cable weight ≈ lbs/mt
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
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
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
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.