



Voltage : 0.14 mm<sup>2</sup> : 350 V  
 ≥ 0.25 mm<sup>2</sup> : 500 V  
 Temp. : 80 °C

**Application**

LIYCY is use as data transmission and control system when interference free is required, especially in conveyor system, automated manufacturing systems, transmission lines and all kind of moving machinery, etc. The high density of copper screening ensures maximum protection from interference and disturbance-free transmission of signal and impulses. It is suitable to be use in dry, moist and wet environment, but not recommended to be use in outdoor.

**Cable Construction**

- Fine strand of bare copper conductors according to DIN VDE 0295 class 5 and IEC 60228
- Conductor make-up : 0.14 mm<sup>2</sup> : 18 x 0.10 mm  
 0.25 mm<sup>2</sup> : 14 x 0.25 mm  
 0.34 mm<sup>2</sup> : 7 x 0.25 mm
- PVC insulation
- Cores in colour code accordance to DIN 47100
- Cores stranded in layer
- Core wrap in plastic foil
- Tinned drain wire
- Tinned copper braided screen, min. 85% coverage
- PVC outersheath, TM2 to DIN VDE 0281 part 1, colour grey RAL 7001
- Oil & chemical resistance
- PVC self-extinguishing and flame retardant, test method B according to VDE 0472 part 804 and IEC 60332-1

**Technical Data**

Standard : According to DIN VDE 0245, 0812  
 Nominal voltage : 0.14 mm<sup>2</sup> : 350 V  
 ≥ 0.25 mm<sup>2</sup> : 500 V  
 Temperature range : Flexing : – 5°C to + 80°C  
 Fixed laying : – 40°C to + 80°C  
 Testing voltage : Core to core : 1.2 KV, 50 Hz  
 : Core to screen : 0.8 KV, 50 Hz  
 Insulation resistance : Min. 200 MOhm x km  
 Min. bending radius : 10 x cable diameter  
 Inductance : ± 0.65 mH/km  
 Impedance : ± 78 Ohm  
 Capacitance at 800 Hz : Core to core  
 0.14 mm<sup>2</sup> : ± 120 pF/m  
 0.25 mm<sup>2</sup> : ± 150 pF/m  
 Core to Screen  
 0.14 mm<sup>2</sup> : ± 240 pF/m  
 0.25 mm<sup>2</sup> : ± 270 pF/m

Item No.	No. Of Core x Section mm <sup>2</sup>	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
110001	1 x 0.14	3.1	6.1	16
110002	2 x 0.14	3.6	12.0	20
110003	3 x 0.14	3.7	13.0	27
110004	4 x 0.14	4.0	14.5	32
110005	5 x 0.14	4.5	15.5	37
110006	6 x 0.14	4.9	18.2	42
110007	7 x 0.14	5.0	19.0	48
110008	8 x 0.14	5.2	21.3	55
110009	10 x 0.14	6.1	28.7	65
110010	12 x 0.14	6.2	30.5	77
110011	14 x 0.14	6.5	32.0	79
110012	16 x 0.14	7.0	43.2	89
110013	18 x 0.14	7.2	51.0	103
110014	20 x 0.14	7.5	55.0	116
110015	21 x 0.14	7.6	56.0	120
110016	24 x 0.14	8.4	62.0	131
110017	25 x 0.14	8.5	61.0	136
110018	27 x 0.14	8.6	65.0	142
110019	30 x 0.14	9.0	69.0	157
110020	32 x 0.14	9.2	76.0	163
110021	36 x 0.14	9.6	83.0	182
110022	40 x 0.14	10.3	88.0	209

Item No.	No. Of Core x Section mm <sup>2</sup>	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
110023	42 x 0.14	10.6	94.0	217
110024	44 x 0.14	11.0	111.0	226
110025	48 x 0.14	11.2	115.0	240
110026	52 x 0.14	11.4	124.0	270
110027	56 x 0.14	11.9	132.0	320
110028	61 x 0.14	12.3	146.0	370
110029	80 x 0.14	19.1	226.0	510
110030	100 x 0.14	22.9	267.0	580
110031	1 x 0.25	3.0	7.2	27
110032	2 x 0.25	4.2	15.8	31
110033	3 x 0.25	4.6	18.6	36
110034	4 x 0.25	5.0	22.0	40
110035	5 x 0.25	5.2	26.5	51
110036	6 x 0.25	5.7	32.4	58
110037	7 x 0.25	5.9	35.0	64
110038	8 x 0.25	6.2	42.1	82
110039	10 x 0.25	7.1	49.9	85
110040	12 x 0.25	7.3	58.0	90
110041	14 x 0.25	7.9	62.0	144
110042	16 x 0.25	8.3	67.0	110
110043	18 x 0.25	8.5	78.0	142
110044	19 x 0.25	8.7	79.0	146

Item No.	No. Of Core x Section mm <sup>2</sup>	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km	Item No.	No. Of Core x Section mm <sup>2</sup>	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
110045	20 x 0.25	9.0	88.0	152	1100115	34 x 0.5	15.5	298.0	440
110046	21 x 0.25	9.1	91.0	150	1100116	36 x 0.5	15.8	305.0	445
110047	24 x 0.25	10.2	96.0	163	1100117	37 x 0.5	16.2	317.0	458
110048	25 x 0.25	10.4	99.0	169	1100118	40 x 0.5	16.6	345.0	470
110049	27 x 0.25	10.6	122.0	176	1100119	50 x 0.5	18.5	407.0	570
110050	30 x 0.25	10.9	132.0	189	1100120	61 x 0.5	19.5	580.0	650
110051	32 x 0.25	11.1	138.0	204	1100121	80 x 0.5	23.1	690.0	780
110052	36 x 0.25	11.6	146.0	219	1100122	100 x 0.5	26.0	814.0	990
110053	37 x 0.25	11.8	152.0	230	1100123	1 x 0.75	3.7	19.0	41
110054	40 x 0.25	12.2	157.0	247	1100124	2 x 0.75	6.1	38.0	59
110055	42 x 0.25	12.6	160.0	269	1100125	3 x 0.75	6.5	50.0	66
110056	44 x 0.25	13.0	164.0	292	1100126	4 x 0.75	7.1	57.0	77
110057	48 x 0.25	13.4	168.0	317	1100127	5 x 0.75	7.5	70.0	93
110058	52 x 0.25	14.1	175.0	330	1100128	6 x 0.75	8.2	87.0	113
110059	56 x 0.25	14.5	189.0	343	1100129	7 x 0.75	8.6	96.0	130
110060	61 x 0.25	14.9	204.0	365	1100130	8 x 0.75	9.1	110.0	145
110061	80 x 0.25	25.6	387.0	480	1100131	10 x 0.75	10.6	140.0	180
110062	100 x 0.25	28.1	505.0	605	1100132	12 x 0.75	11.0	148.0	202
110063	1 x 0.34	3.3	13.5	24	1100133	14 x 0.75	11.5	167.0	225
110064	2 x 0.34	4.7	18.0	30	1100134	16 x 0.75	12.2	183.0	275
110065	3 x 0.34	5.0	22.0	37	1100135	18 x 0.75	13.1	205.0	292
110066	4 x 0.34	5.5	32.2	48	1100136	19 x 0.75	13.3	221.0	322
110067	5 x 0.34	6.1	31.0	54	1100137	20 x 0.75	14.1	238.0	362
110068	6 x 0.34	6.4	45.0	61	1100138	24 x 0.75	15.6	270.0	435
110069	7 x 0.34	6.6	51.0	67	1100139	25 x 0.75	15.7	278.0	415
110070	8 x 0.34	7.0	54.0	81	1100140	27 x 0.75	16.2	287.0	467
110071	10 x 0.34	8.1	65.0	103	1100141	30 x 0.75	16.9	315.0	486
110072	12 x 0.34	8.5	70.0	110	1100142	32 x 0.75	17.0	330.0	530
110073	14 x 0.34	9.0	81.0	153	1100143	34 x 0.75	17.4	350.0	570
110074	16 x 0.34	9.5	88.0	159	1100144	36 x 0.75	17.9	370.0	600
110075	18 x 0.34	10.0	103.0	172	1100145	37 x 0.75	18.3	386.0	640
110076	19 x 0.34	10.2	106.0	181	1100146	40 x 0.75	19.1	395.0	680
110077	20 x 0.34	10.9	112.0	191	1100147	42 x 0.75	19.6	408.0	714
110078	21 x 0.34	11.0	116.0	199	1100148	50 x 0.75	21.0	480.0	810
110079	24 x 0.34	12.0	129.0	229	1100149	61 x 0.75	22.8	555.0	900
110080	25 x 0.34	11.5	130.0	241	1100150	80 x 0.75	27.5	715.0	1200
110081	27 x 0.34	12.3	138.0	258	1100151	100 x 0.75	31.3	910.0	1440
110082	30 x 0.34	12.5	158.0	290					
110083	32 x 0.34	13.0	163.0	305	1100152	2 x 1	6.4	46.0	65
110084	36 x 0.34	13.5	178.0	330	1100153	3 x 1	7.0	56.0	80
110085	37 x 0.34	13.7	192.0	348	1100154	4 x 1	7.6	69.0	98
110086	40 x 0.34	14.5	198.0	364	1100155	5 x 1	8.2	85.0	127
110087	42 x 0.34	15.2	203.0	389	1100156	6 x 1	9.0	105.0	144
110088	44 x 0.34	15.6	214.0	414	1100157	7 x 1	9.1	111.0	158
110089	48 x 0.34	15.9	227.0	420	1100158	8 x 1	10.3	130.0	197
110090	52 x 0.34	16.2	242.0	450	1100159	10 x 1	11.5	140.0	232
110091	56 x 0.34	16.5	267.0	480	1100160	12 x 1	11.8	168.0	260
110092	61 x 0.34	17.0	295.0	520	1100161	14 x 1	12.6	198.0	302
110093	80 x 0.34	25.5	524.0	580	1100162	16 x 1	13.5	218.0	346
110094	100 x 0.34	28.4	620.0	694	1100163	19 x 1	14.0	259.0	412
					1100164	24 x 1	16.5	320.0	493
110095	1 x 0.5	3.5	15.0	40	1100165	27 x 1	16.9	360.0	562
110096	2 x 0.5	5.5	29.0	45	1100166	37 x 1	18.9	485.0	790
110097	3 x 0.5	5.9	38.0	55	1100167	2 x 1.5	7.4	63.0	88
110098	4 x 0.5	6.5	45.0	61	1100168	3 x 1.5	8.1	76.0	100
110099	5 x 0.5	6.9	51.0	76	1100169	4 x 1.5	8.8	98.0	126
110100	6 x 0.5	7.5	66.0	89	1100170	5 x 1.5	9.5	116.0	160
110101	7 x 0.5	7.7	68.0	98	1100171	6 x 1.5	10.5	140.0	192
110102	8 x 0.5	8.2	80.0	117	1100172	7 x 1.5	10.8	152.0	208
110103	10 x 0.5	9.5	93.0	135	1100173	8 x 1.5	11.6	172.0	244
110104	12 x 0.5	9.8	107.0	157	1100174	10 x 1.5	13.4	193.0	315
110105	14 x 0.5	10.5	122.0	190	1100175	12 x 1.5	14.1	254.0	338
110106	16 x 0.5	11.0	129.0	210	1100176	14 x 1.5	15.1	272.0	383
110107	18 x 0.5	11.5	152.0	217	1100177	16 x 1.5	15.6	285.0	424
110108	19 x 0.5	11.6	156.0	246	1100178	19 x 1.5	17.0	387.0	506
110109	20 x 0.5	12.5	161.0	275	1100179	24 x 1.5	19.4	448.0	690
110110	24 x 0.5	13.8	230.0	337	1100180	27 x 1.5	19.9	506.0	781
110111	25 x 0.5	14.0	250.0	351	1100181	37 x 1.5	23.5	682.0	941
110112	27 x 0.5	14.1	265.0	373					
110113	30 x 0.5	14.5	276.0	396					
110114	32 x 0.5	15.1	291.0	431					