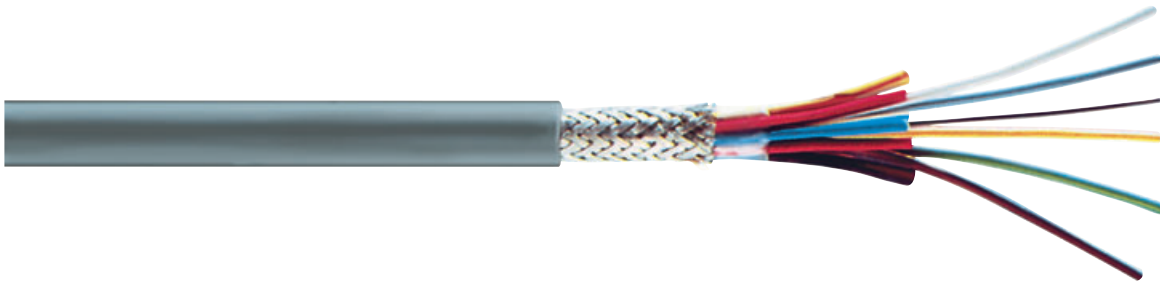


LiYCY-O

**Flexible electronics cable with overall copper braided screening;
preferred EMC compatible cable type**



Applications

LiYCY cables are used as connecting cables in control, measuring and signalling technology as well as in data processing and office technology. Ideal for use in connection with mobile equipment due to high flexibility and reduced outer diameter.

These cables with copper screening are ideal for interference-free data and signal transmission in measuring and control technology in EMI environments.

Design

- Stranded bare Cu conductor, fine wire
- Strand structure to VDE 0295 class 5 / IEC 60228 class 5 (exception 0.34 mm² = stranded bare Cu conductor 7 x 0.25 mm)
- Core insulation: special PVC
- Core identification:
 - 0.14 to 0.75 mm² – to DIN 47100, without colour repetition
 - 1.0 to 10.0 mm² – black cores with printed consecutive number coding
- Cores twisted in layers, with optimal lay lengths
- Film lapping
- Braided screening made of tinned copper wires
- Outer sheath: special PVC
- Sheath colour: RAL 7001 grey

Available special types:

- different core colours
- different sheath colours, etc.

Electrical and technical specifications

Peak operating voltage: 300 V
2.5 mm² and over: 500 V
(Not approved for use as mains power cable!)

Test voltage: 1200 V
2.5 mm² and over: 2000 V

Insulation resistance at +20° C:
≥ 20 MOhm x km

Bending radius: 15 x cable diameter

Temperature range:
flexible – 5° C to +70° C
stationary –30° C to +80° C

Flame retardant to IEC 60332-1

Cross-section mm ²	Cu content kg/km	Outer diameter approx. mm	Weight approx. kg/km
1x0.14	8.0	3.2	16
2x0.14	11.0	3.9	20
3x0.14	12.0	4.1	24
4x0.14	14.0	4.3	28
5x0.14	16.0	4.6	34
6x0.14	19.0	4.9	36
7x0.14	20.0	4.9	39
8x0.14	22.0	5.8	43
9x0.14	24.0	5.8	49
10x0.14	26.0	6.1	54
12x0.14	28.0	6.3	59
14x0.14	33.0	6.7	65
15x0.14	39.0	6.9	70
16x0.14	42.7	7.0	74
18x0.14	52.0	7.7	92
20x0.14	57.0	7.9	94
21x0.14	59.0	8.3	104
24x0.14	70.0	8.5	106
25x0.14	76.0	8.5	111
27x0.14	84.0	8.5	121
30x0.14	90.0	8.7	129
32x0.14	96.0	9.0	138
36x0.14	108.0	9.3	148
40x0.14	115.0	10.4	164
48x0.14	130.0	10.9	191
50x0.14	135.0	11.1	196
52x0.14	142.0	11.1	200
56x0.14	148.0	11.4	211
61x0.14	152.0	11.7	242
80x0.14	195.0	16.0	486
100x0.14	251.0	17.0	578
1x0.25	8.0	3.0	14
2x0.25	15.0	4.5	28
3x0.25	18.0	4.7	34
4x0.25	22.0	5.0	40
5x0.25	25.0	5.6	47
6x0.25	30.0	6.0	59
7x0.25	32.0	6.0	61
8x0.25	35.0	7.1	66
10x0.25	42.0	7.5	80
12x0.25	50.0	7.7	91
14x0.25	58.0	8.0	120
15x0.25	61.0	8.2	134
16x0.25	67.0	8.4	139
18x0.25	80.0	8.8	143
20x0.25	100.0	9.3	148
21x0.25	104.0	9.6	151
24x0.25	115.0	10.5	161
25x0.25	118.0	10.7	168
27x0.25	123.0	10.7	172
30x0.25	130.0	11.0	187
32x0.25	135.0	11.4	201
36x0.25	145.0	11.8	217
40x0.25	155.0	12.7	221
44x0.25	165.0	13.5	329
48x0.25	174.0	13.5	350
50x0.25	180.0	13.8	359
52x0.25	186.0	13.8	385
56x0.25	201.0	14.0	498
61x0.25	220.0	15.0	593
80x0.25	292.0	19.3	698
100x0.25	371.0	22.0	990

Cross-section mm ²	Cu content kg/km	Outer diameter approx. mm	Weight approx. kg/km
1x0.34	10.0	3.2	16
2x0.34	17.0	4.9	31
3x0.34	20.0	5.1	38
4x0.34	24.0	5.7	46
5x0.34	30.0	6.2	54
6x0.34	39.0	6.8	67
7x0.34	42.0	6.8	70
8x0.34	45.0	7.8	76
10x0.34	59.0	8.3	114
12x0.34	65.0	8.5	127
14x0.34	75.0	8.9	141
15x0.34	79.0	9.4	152
16x0.34	82.0	9.4	155
18x0.34	92.0	10.2	186
20x0.34	124.0	10.7	195
21x0.34	130.0	11.1	202
24x0.34	140.0	11.7	244
27x0.34	150.0	11.9	261
30x0.34	156.0	12.3	282
32x0.34	165.0	13.0	298
36x0.34	183.0	13.4	325
40x0.34	198.0	14.8	352
42x0.34	205.0	14.8	371
48x0.34	228.0	15.5	430
50x0.34	236.0	15.7	459
61x0.34	299.0	16.8	510
80x0.34	370.0	21.2	669
100x0.34	415.0	26.5	836
1x0.5	14.0	3.4	21
2x0.5	23.0	5.6	36
3x0.5	35.0	5.9	45
4x0.5	45.0	6.3	54
5x0.5	57.0	7.0	67
6x0.5	68.0	7.6	81
7x0.5	80.0	7.6	84
8x0.5	85.0	8.7	111
10x0.5	100.0	9.3	134
12x0.5	112.0	9.6	156
14x0.5	125.0	10.4	169
15x0.5	130.0	10.4	180
16x0.5	140.0	10.9	195
18x0.5	152.0	11.4	215
20x0.5	165.0	12.4	234
21x0.5	171.0	12.7	251
24x0.5	190.0	13.4	298
25x0.5	198.0	13.7	302
27x0.5	206.0	13.8	321
30x0.5	225.0	14.6	348
32x0.5	236.0	15.1	373
34x0.5	243.0	15.3	388
36x0.5	260.0	15.5	405
40x0.5	290.0	16.3	440
42x0.5	298.0	17.1	487
44x0.5	311.0	17.6	505
48x0.5	330.0	18.0	532
50x0.5	340.0	18.4	552
52x0.5	355.0	18.4	566
56x0.5	377.0	19.4	618
61x0.5	415.0	19.6	659
80x0.5	515.0	22.7	864
100x0.5	630.0	25.5	1050

Cross-section mm ²	Cu content kg/km	Outer diameter approx. mm	Weight approx. kg/km
1x0.75	18.0	3.8	27
2x0.75	35.0	6.0	56
3x0.75	46.0	6.3	70
4x0.75	56.0	7.6	95
5x0.75	70.0	7.6	130
6x0.75	85.0	8.2	155
7x0.75	98.0	8.2	168
8x0.75	110.0	9.4	173
10x0.75	131.0	10.5	195
12x0.75	148.0	10.8	232
14x0.75	167.0	11.6	260
16x0.75	183.0	12.1	296
18x0.75	205.0	13.0	315
20x0.75	220.0	13.3	364
24x0.75	250.0	15.0	418
25x0.75	271.0	15.1	430
30x0.75	315.0	15.8	500
32x0.75	330.0	16.4	520
36x0.75	370.0	17.2	606
40x0.75	395.0	17.8	672
42x0.75	440.0	19.5	693
50x0.75	480.0	20.9	807
61x0.75	555.0	22.5	942
80x0.75	715.0	26.5	1190
100x0.75	910.0	30.0	1463
1x1.0	23.0	4.9	44
2x1.0	55.0	6.3	84
3x1.0	70.0	6.8	110
4x1.0	80.0	7.3	130
5x1.0	95.0	8.0	156
6x1.0	105.0	8.6	178
7x1.0	120.0	8.6	192
8x1.0	130.0	9.4	223
10x1.0	165.0	11.1	251
12x1.0	185.0	11.4	265
14x1.0	205.0	12.6	272
16x1.0	220.0	13.4	361
18x1.0	245.0	14.0	380
20x1.0	270.0	14.8	388
24x1.0	320.0	16.2	451
25x1.0	330.0	16.4	475
30x1.0	395.0	16.9	554
34x1.0	440.0	17.7	629
40x1.0	510.0	19.0	709
42x1.0	533.0	21.0	769
50x1.0	625.0	23.0	995
61x1.0	710.0	25.3	1100
80x1.0	940.0	30.8	1485
100x1.0	1180.0	35.0	1830
1x1.5	29.0	5.1	49
2x1.5	65.0	7.5	97
3x1.5	90.0	7.9	125
4x1.5	110.0	8.5	165
5x1.5	125.0	9.3	193
6x1.5	144.0	10.5	219
7x1.5	159.0	10.5	245
8x1.5	175.0	11.3	270
10x1.5	210.0	13.3	338
12x1.5	245.0	13.7	365
14x1.5	280.0	14.8	410
16x1.5	315.0	15.5	465
18x1.5	345.0	16.3	553
20x1.5	375.0	17.1	635

Cross-section mm ²	Cu content kg/km	Outer diameter approx. mm	Weight approx. kg/km
24x1.5	448.0	19.5	705
25x1.5	465.0	19.9	720
30x1.5	555.0	20.5	776
32x1.5	577.0	20.7	836
34x1.5	612.0	21.5	896
36x1.5	630.0	22.0	985
42x1.5	782.0	24.0	1140
50x1.5	885.0	25.8	1330
61x1.5	1120.0	27.0	1650
80x1.5	1360.0	32.5	2085
100x1.5	1690.0	37.5	2570
1x2.5	65.0	5.9	95
2x2.5	98.0	9.0	148
3x2.5	124.0	9.5	188
4x2.5	150.0	10.9	236
5x2.5	180.0	11.9	270
6x2.5	210.0	13.2	305
7x2.5	235.0	13.2	340
8x2.5	262.0	14.7	382
10x2.5	335.0	16.8	512
12x2.5	386.0	17.8	585
2x4.0	135.0	12.4	194
3x4.0	178.0	12.7	250
4x4.0	220.0	14.0	302
5x4.0	270.0	15.3	370
6x4.0	315.0	16.8	424
7x4.0	355.0	16.8	473
2x6.0	175.0	13.0	251
3x6.0	240.0	14.0	285
4x6.0	305.0	14.8	412
5x6.0	370.0	17.7	505
6x6.0	440.0	18.8	597
7x6.0	505.0	18.8	671
2x10	265.0	15.5	360
3x10	370.0	16.5	485
4x10	485.0	18.1	620
5x10	595.0	20.0	796
6x10	720.0	22.8	905
7x10	820.0	22.8	1062