LiYCY TP

Application and Description

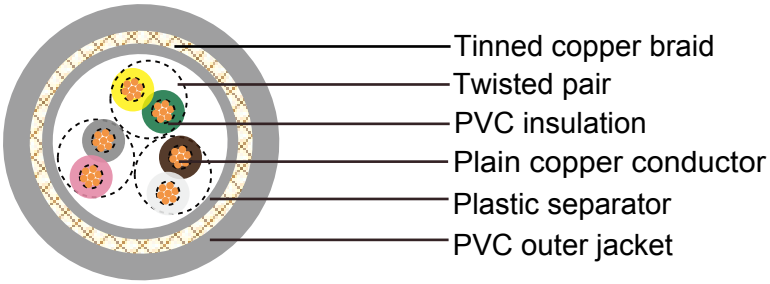
LiYCY TP twisted cable is used for flexible use with free movement, but without tensile stress or forced movements in dry, wet and moist areas but are not suitable for open air application. It is commonly used as control and signal cable in the electronics of computer systems, electronic control equipment, office machines and measurement devices in the tool making and machine industries. The twisted pair construction reduces interference (crosstalk) within the cable while the tinned copper braid shield offers optimum protection from electrical and electromagnetic interference.

Standard and Approval

VDE 0812, VDE 0814, CE Low Voltage Directive 73/23/EEC and 93/68/EEC, ROHS compliant

Cable Construction

- Plain copper conductor
- Stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5 IEC 60228 cl.5
- PVC core insulation to DIN VDE 0281 part 1
- Color coded to DIN 47100, but without color repetition
- Cores twisted into layers
- Plastic foil separator
- 85% tinned copper braid
- PVC outer jacket to DIN VDE 0281 part 1

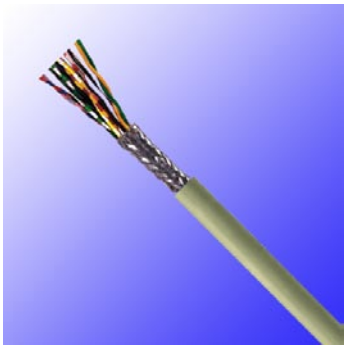


LiYCY TP

German Standard (VDE)

Technical Characteristics

- Working voltage: 250 volts
- Test voltage: 1200 volts
- Minimum bending radius: 5 x Ø
- Flexing temperature: -5° C to +70° C
- Static temperature: -30° C to +70° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km



Cable Parameter

AWG	No. of Cores x Nominal Cross Sectional Area # x mm²	Nominal Overall Diameter mm	Copper Weight kg / km	Cable Weight kg / km
26(18/38)	2 x 2 x 0.14	5.2	18.5	40
26(18/38)	3 x 2 x 0.14	5.6	23.0	49
26(18/38)	4 x 2 x 0.14	5.8	26.6	55
26(18/38)	5 x 2 x 0.14	6.5	30.7	66
26(18/38)	6 x 2 x 0.14	7.3	48.5	86
26(18/38)	7 x 2 x 0.14	7.5	51.1	91
26(18/38)	8 x 2 x 0.14	7.8	53.7	97
26(18/38)	10 x 2 x 0.14	8.5	59.0	109
26(18/38)	12 x 2 x 0.14	9.3	66.0	141
26(18/38)	14 x 2 x 0.14	10.0	74.0	148
26(18/38)	15 x 2 x 0.14	10.3	76.0	152
26(18/38)	16 x 2 x 0.14	10.7	79.0	155
26(18/38)	18 x 2 x 0.14	11.0	83.0	171
26(18/38)	20 x 2 x 0.14	11.2	97.0	183
26(18/38)	22 x 2 x 0.14	11.6	103.0	205
26(18/38)	24 x 2 x 0.14	12.0	111.0	228
26(18/38)	25 x 2 x 0.14	12.4	113.0	239
26(18/38)	26 x 2 x 0.14	12.8	122.0	245
26(18/38)	27 x 2 x 0.14	13.0	125.0	251
26(18/38)	28 x 2 x 0.14	13.2	128.0	258
26(18/38)	30 x 2 x 0.14	13.6	140.0	270
26(18/38)	32 x 2 x 0.14	14.2	145.0	284
26(18/38)	34 x 2 x 0.14	14.6	150.0	300
26(18/38)	36 x 2 x 0.14	14.8	156.0	316
26(18/38)	38 x 2 x 0.14	15.0	162.0	350
26(18/38)	40 x 2 x 0.14	15.4	177.0	370
26(18/38)	44 x 2 x 0.14	16.0	181.0	390

AWG	No. of Cores x Nominal Cross Sectional Area # x mm²	Nominal Overall Diameter mm	Copper Weight kg / km	Cable Weight kg / km
26(18/38)	46 x 2 x 0.14	16.4	195.0	430
26(18/38)	50 x 2 x 0.14	17.8	202.0	440
26(18/38)	52 x 2 x 0.14	18.0	206.0	460
26(18/38)	55 x 2 x 0.14	18.8	210.0	480
24(14/34)	2 x 2 x 0.25	6.3	28.0	53
24(14/34)	3 x 2 x 0.25	6.7	32.0	65
24(14/34)	4 x 2 x 0.25	6.8	38.0	80
24(14/34)	5 x 2 x 0.25	7.8	55.0	98
24(14/34)	6 x 2 x 0.25	8.8	65.0	114
24(14/34)	7 x 2 x 0.25	8.9	70.0	121
24(14/34)	8 x 2 x 0.25	9.6	75.0	129
24(14/34)	10 x 2 x 0.25	10.6	110.0	157
24(14/34)	12 x 2 x 0.25	11.6	117.0	189
24(14/34)	14 x 2 x 0.25	12.0	122.0	213
24(14/34)	15 x 2 x 0.25	12.5	134.0	225
24(14/34)	16 x 2 x 0.25	13.0	143.0	237
24(14/34)	18 x 2 x 0.25	13.2	148.0	248
24(14/34)	20 x 2 x 0.25	13.7	162.0	275
24(14/34)	22 x 2 x 0.25	14.4	172.0	303
24(14/34)	24 x 2 x 0.25	15.0	223.0	330
24(14/34)	25 x 2 x 0.25	15.4	233.0	343
24(14/34)	26 x 2 x 0.25	15.8	238.0	345
24(14/34)	27 x 2 x 0.25	16.2	244.0	350
24(14/34)	28 x 2 x 0.25	16.3	249.0	360
24(14/34)	30 x 2 x 0.25	16.7	254.0	375
24(14/34)	32 x 2 x 0.25	16.9	290.0	400
24(14/34)	34 x 2 x 0.25	17.5	312.0	410
24(14/34)	36 x 2 x 0.25	17.7	322.0	420
24(14/34)	38 x 2 x 0.25	18.0	339.0	450
24(14/34)	40 x 2 x 0.25	18.8	349.0	485
24(14/34)	44 x 2 x 0.25	19.0	359.0	500
24(14/34)	46 x 2 x 0.25	19.2	398.0	540
24(14/34)	50 x 2 x 0.25	19.9	403.0	550
24(14/34)	52 x 2 x 0.25	20.0	435.0	580
24(14/34)	55 x 2 x 0.25	21.0	464.0	630
22(7/30)	2 x 2 x 0.34	6.3	36.9	65
22(7/30)	3 x 2 x 0.34	7.5	44.9	78
22(7/30)	4 x 2 x 0.34	8.0	54.2	90
22(7/30)	5 x 2 x 0.34	8.9	63.5	110
22(7/30)	6 x 2 x 0.34	10.5	73.1	130
22(7/30)	7 x 2 x 0.34	10.7	79.5	145
22(7/30)	8 x 2 x 0.34	10.9	88.4	150
22(7/30)	9 x 2 x 0.34	11.4	99.3	170
22(7/30)	10 x 2 x 0.34	12.0	106.9	190
22(7/30)	12 x 2 x 0.34	13.2	122.1	220
22(7/30)	14 x 2 x 0.34	13.6	138.2	245

German Standard (VDE)

AWG	No. of Cores x Nominal Cross Sectional Area # x mm²	Nominal Overall Diameter mm	Copper Weight kg / km	Cable Weight kg / km
22(7/30)	16 x 2 x 0.34	15.1	154.2	250
22(7/30)	18 x 2 x 0.34	15.2	197.9	275
22(7/30)	21 x 2 x 0.34	16.2	214.4	300
22(7/30)	25 x 2 x 0.34	17.9	238.5	400
22(7/30)	27 x 2 x 0.34	18.2	262.5	410
22(7/30)	30 x 2 x 0.34	19.0	286.6	440
22(7/30)	34 x 2 x 0.34	20.0	310.1	510
22(7/30)	37 x 2 x 0.34	20.3	368.7	550
22(7/30)	40 x 2 x 0.34	21.0	392.6	590
22(7/30)	44 x 2 x 0.34	22.2	424.3	600
22(7/30)	50 x 2 x 0.34	23.5	455.9	650
22(7/30)	52 x 2 x 0.34	24.6	487.6	680
22(7/30)	56 x 2 x 0.34	25.1	518.5	750
22(7/30)	61 x 2 x 0.34	26.3	557.2	840
20(16/32)	2 x 2 x 0.5	7.8	54.0	89
20(16/32)	3 x 2 x 0.5	8.5	70.0	104
20(16/32)	4 x 2 x 0.5	9.1	91.0	126
20(16/32)	5 x 2 x 0.5	10.4	105.0	148
20(16/32)	6 x 2 x 0.5	11.8	120.0	171
20(16/32)	8 x 2 x 0.5	13.1	144.0	290
20(16/32)	10 x 2 x 0.5	14.3	178.0	320
20(16/32)	12 x 2 x 0.5	15.0	199.0	261
20(16/32)	16 x 2 x 0.5	17.5	254.0	421
20(16/32)	20 x 2 x 0.5	19.5	302.0	580
20(16/32)	25 x 2 x 0.5	22.5	344.0	740
18(24/32)	2 x 2 x 0.75	8.2	58.0	105
18(24/32)	3 x 2 x 0.75	9.0	84.0	128
18(24/32)	4 x 2 x 0.75	9.2	108.0	156
18(24/32)	5 x 2 x 0.75	11.0	126.0	189
18(24/32)	6 x 2 x 0.75	12.4	146.0	216
18(24/32)	8 x 2 x 0.75	14.1	180.0	309
18(24/32)	10 x 2 x 0.75	15.3	220.0	355
18(24/32)	12 x 2 x 0.75	16.4	261.0	405
18(24/32)	16 x 2 x 0.75	19.2	328.0	565
18(24/32)	20 x 2 x 0.75	21.2	392.0	700
18(24/32)	25 x 2 x 0.75	23.5	470.0	950
17(32/32)	2 x 2 x 1.0	8.9	82	116
17(32/32)	3 x 2 x 1.0	9.5	103	140
17(32/32)	4 x 2 x 1.0	10.5	132	190
17(32/32)	5 x 2 x 1.0	14.3	161	265
17(32/32)	7 x 2 x 1.0	16.5	208	411
16(30/30)	2 x 2 x 1.5	10.7	110	122
16(30/30)	3 x 2 x 1.5	11.6	135	193
16(30/30)	4 x 2 x 1.5	13.0	171	240
16(30/30)	5 x 2 x 1.5	15.2	211	339
16(30/30)	7 x 2 x 1.5	17.5	295	475