



Footnote

4.00 mm² 6.00 mm² and also LSF type of LIYY-TP cables can be produced as well. LIYCY-OZ: black cores with numbers ; LIYCY-JZ: black cores with numbers + one green/yellow core

Cable Structure

Conductor	Stranded Electrolytic Annealed Copper (IEC/BS/EN 60228, VDE 0295 Class 5, 0.34mm ² : Column 2)
Insulation	PVC (BS/EN 50290-2, VDE 0207 Tl2), Color Code: DIN 47100
Lay-up	Cores stranded in layers
Separator	Polyester Tape
Screen	Tinned copper wire braiding
Outer Sheath	PVC (BS/EN 50290-2), Grey (RAL 7001)
Reference Standards	VDE 0812
Flame test	IEC/EN/BS/DIN 60332-1-2 (VDE 0482-332-1-2)

Cross

Product Code	# Cores/Cross Sect.(mm ²)	Cable Diameter(mm)(±5%)	Copper Weight(kg/km)	~Cable Weight (kg/km)
21100102				
0.14mm ²	2x0.14	3.8	8	20
21100103				
0.14mm ²	3x0.14	4.0	11	25
21100104				
0.14mm ²	4x0.14	4.2	12	28
21100105				
0.14mm ²	5x0.14	4.6	14	31
21100106				
0.14mm ²	6x0.14	5.1	16	37
21100107				
0.14mm ²	7x0.14	5.1	17	39

21100108				
0.14mm ²	8x0.14	5.3	20	43
21100109				
0.14mm ²	9x0.14	5.7	23	48
21100110				
0.14mm ²	10x0.14	6.1	25	53
21100112				
0.14mm ²	12x0.14	6.3	28	59
21100114				
0.14mm ²	14x0.14	6.6	31	66
21100116				
0.14mm ²	16x0.14	7.0	34	74
21100118				
0.14mm ²	18x0.14	7.3	38	82
21100120				
0.14mm ²	20x0.14	7.7	43	91
21100125				
0.14mm ²	25x0.14	8.4	54	109
21100202				
0.22mm ²	2x0.22	4.0	11	23
21100203				
0.22mm ²	3x0.22	4.2	13	29
21100204				
0.22mm ²	4x0.22	4.4	16	34
21100205				
0.22mm ²	5x0.22	5.0	18	40
21100206				
0.22mm ²	6x0.22	5.4	21	46

21100207				
0.22mm ²	7x0.22	5.4	23	49
21100208				
0.22mm ²	8x0.22	5.7	26	53
21100209				
0.22mm ²	9x0.22	6.2	29	60
21100210				
0.22mm ²	10x0.22	6.7	35	68
21100212				
0.22mm ²	12x0.22	7.0	39	76
21100214				
0.22mm ²	14x0.22	7.5	44	85
21100216				
0.22mm ²	16x0.22	7.8	49	95
21100218				
0.22mm ²	18x0.22	8.2	55	105
21100220				
0.22mm ²	20x0.22	8.5	59	116
21100225				
0.22mm ²	25x0.22	9.6	77	146
21100302				
0.25mm ²	2x0.25	4.3	12	26
21100303				
0.25mm ²	3x0.25	4.5	14	31
21100304				
0.25mm ²	4x0.25	4.8	17	36
21100305				

0.25mm ²	5x0.25	5.1	20	42
21100306				
0.25mm ²	6x0.25	5.6	24	48
21100307				
0.25mm ²	7x0.25	5.6	26	52
21100308				
0.25mm ²	8x0.25	6.4	29	58
21100309				
0.25mm ²	9x0.25	6.6	32	63
21100310				
0.25mm ²	10x0.25	6.9	35	68
21100312				
0.25mm ²	12x0.25	7.2	42	80
21100314				
0.25mm ²	14x0.25	7.5	49	92
21100316				
0.25mm ²	16x0.25	8.1	57	113
21100318				
0.25mm ²	18x0.25	8.5	63	119
21100320				
0.25mm ²	20x0.25	9.0	69	130
21100325				
0.25mm ²	25x0.25	10.1	83	158
21100402				
0.34mm ²	2x0.34	4.6	14	30
21100403				
0.34mm ²	3x0.34	4.9	18	37

21100404				
0.34mm ²	4x0.34	5.4	22	45
21100405				
0.34mm ²	5x0.34	5.8	26	53
21100406				
0.34mm ²	6x0.34	6.3	30	61
21100407				
0.34mm ²	7x0.34	6.3	33	67
21100408				
0.34mm ²	8x0.34	6.8	38	74
21100409				
0.34mm ²	9x0.34	7.3	43	83
21100410				
0.34mm ²	10x0.34	7.9	49	93
21100412				
0.34mm ²	12x0.34	8.4	59	110
21100414				
0.34mm ²	14x0.34	8.7	67	125
21100416				
0.34mm ²	16x0.34	9.3	75	139
21100418				
0.34mm ²	18x0.34	9.8	83	156
21100420				
0.34mm ²	20x0.34	10.3	91	170
21100425				
0.34mm ²	25x0.34	11.4	110	205
21100502				
0.50mm ²	2x0.50	5.0	17	37

21100503				
0.50mm ²	3x0.50	5.1	21	44
21100504				
0.50mm ²	4x0.50	5.7	28	56
21100505				
0.50mm ²	5x0.50	6.4	33	68
21100506				
0.50mm ²	6x0.50	7.1	39	80
21100507				
0.50mm ²	7x0.50	7.1	45	87
21100508				
0.50mm ²	8x0.50	7.5	52	105
21100509				
0.50mm ²	9x0.50	8.2	56	112
21100510				
0.50mm ²	10x0.50	8.6	62	118
21100512				
0.50mm ²	12x0.50	9.1	71	140
21100514				
0.50mm ²	14x0.50	10.0	81	155
21100516				
0.50mm ²	16x0.50	10.8	90	180
21100518				
0.50mm ²	18x0.50	11.3	100	196
21100520				
0.50mm ²	20x0.50	12.0	109	211
21100525				

0.50mm ²	25x0.50	13.0	134	258
21100802				
0.75mm ²	2x0.75	5.4	22	47
21100803				
0.75mm ²	3x0.75	5.7	29	56
21100804				
0.75mm ²	4x0.75	6.4	37	72
21100805				
0.75mm ²	5x0.75	7.1	46	88
21100806				
0.75mm ²	6x0.75	7.8	55	101
21100807				
0.75mm ²	7x0.75	7.8	64	113
21100808				
0.75mm ²	8x0.75	8.5	70	133
21100809				
0.75mm ²	9x0.75	9.4	78	142
21100810				
0.75mm ²	10x0.75	10.1	91	160
21100812				
0.75mm ²	12x0.75	10.5	105	179
21100814				
0.75mm ²	14x0.75	11.0	120	206
21100816				
0.75mm ²	16x0.75	11.7	135	235
21100818				
0.75mm ²	18x0.75	12.3	150	260

21100820

0.75mm ²	20x0.75	13.2	164	280
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21100825

0.75mm ²	25x0.75	14.6	198	340
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21101002

1.00mm ²	2x1.00	6.0	28	55
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21101003

1.00mm ²	3x1.00	6.3	38	70
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21101004

1.00mm ²	4x1.00	7.0	48	86
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21101005

1.00mm ²	5x1.00	7.7	60	105
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21101006

1.00mm ²	6x1.00	8.4	69	121
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21101007

1.00mm ²	7x1.00	8.4	79	132
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21101008

1.00mm ²	8x1.00	9.1	96	158
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21101009

1.00mm ²	9x1.00	10.1	107	174
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21101010

1.00mm ²	10x1.00	10.7	116	189
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21101012

1.00mm ²	12x1.00	10.9	135	216
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21101014

1.00mm ²	14x1.00	11.8	155	246
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21101016

1.00mm ²	16x1.00	12.5	172	282
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21101018				
1.00mm ²	18x1.00	13.3	191	308
21101020				
1.00mm ²	20x1.00	14.0	219	350
21101025				
1.00mm ²	25x1.00	15.7	263	420
21101502				
1.50mm ²	2x1.50	7.0	39	73
21101503				
1.50mm ²	3x1.50	7.4	53	92
21101504				
1.50mm ²	4x1.50	8.2	68	115
21101505				
1.50mm ²	5x1.50	9.1	84	142
21101506				
1.50mm ²	6x1.50	9.9	100	168
21101507				
1.50mm ²	7x1.50	9.9	113	184
21101508				
1.50mm ²	8x1.50	10.8	133	225
21101509				
1.50mm ²	9x1.50	11.7	152	244
21101510				
1.50mm ²	10x1.50	12.7	167	272
21101512				
1.50mm ²	12x1.50	13.4	192	310
21101514				

1.50mm ²	14x1.50	14.1	223	360
21101516				
1.50mm ²	16x1.50	15.0	252	410
21101518				
1.50mm ²	18x1.50	15.7	278	441
21101520				
1.50mm ²	20x1.50	16.7	307	485
21101525				
1.50mm ²	25x1.50	18.7	372	595
21102502				
2.50mm ²	2x2.50	8.3	58	111
21102503				
2.50mm ²	3x2.50	8.9	85	142
21102504				
2.50mm ²	4x2.50	9.7	114	188
21102505				
2.50mm ²	5x2.50	11.0	138	225
21102506				
2.50mm ²	6x2.50	11.9	163	263
21102507				
2.50mm ²	7x2.50	11.9	189	298
21102508				
2.50mm ²	8x2.50	13.1	211	335
21102509				
2.50mm ²	9x2.50	14.2	237	377
21102510				
2.50mm ²	10x2.50	15.6	262	426

21102512				
2.50mm ²	12x2.50	16.0	308	490
21102514				
2.50mm ²	14x2.50	17.0	355	568
21102516				
2.50mm ²	16x2.50	18.0	402	646
21102518				
2.50mm ²	18x2.50	19.0	448	703
21102520				
2.50mm ²	20x2.50	20.0	495	775

Areas of use

These PVC (screened) cables are used in industrial applications for signal transmission. These can be easily used with their flexible construction in narrow applications like: electronic control systems of computer or audio systems or in communication sector, electronic circuits, measurement devices, machine design, office equipment, etc. Screening protects the cable from the outer electrical effects.

Technical & Electrical Properties

Min. Bending Radius	Fixed 7.5xCable Diameter ; Flexible 15xCable Diameter
Conductor Resistance(max.)	0.14mm ² --138 Ω/km; 0.22mm ² --85 Ω/km; 0.25mm ² --77.8 Ω/km; 0.34mm ² --56 Ω/km; 0.50mm ² --39 Ω/km; 0.75mm ² --26 Ω/km; 1.00mm ² --19.5 Ω/km; 1.50mm ² --13.3 Ω/km; 2.50mm ² --7.98 Ω/km
Capacitance(max.) (core-core)	0.14mm ² --80 nF/km; 0.22mm ² ..0.34mm ² --100 nF/km; 0.50mm ² ..0.75mm ² --110 nF/km; 1.00mm ² ..1.50mm ² --120nF/km; 2.50mm ² --140 nF/km
Capacitance(max.) (core-screen)	0.14mm ² --120 nF/km; 0.22mm ² ..0.34mm ² --150 nF/km; 0.50mm ² ..0.75mm ² --170 nF/km; 1.00mm ² ..1.50mm ² --180nF/km; 2.50mm ² --240 nF/km
Operating Voltage	0.14mm ² ..0.25mm ² 250V; 0.34mm ² ..1.50mm ² 300V/500V; 2.50mm ² 450V/750V
Test Voltage (50 Hz)	0.14mm ² ..25mm ² 1200V; 0.34mm ² ..10mm ² 1500V; 1.50mm ² 2500V
Insulation Resistance	>200 M.Ωxkm
Inductance(approx.)	0.65 mH/km
Temperature Range	Fixed -30 °C.....+70 °C; Flexible -5 °C.....+70 °C