



Footnote

4.00 mm² 6.00 mm² and also LSF type of LIYY cables can be produced as well. LIYY-OZ: black cores with numbers ; LIYY-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
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)
20100102				
0.14mm ²	2x0.14	3.0	3	12
20100103				
0.14mm ²	3x0.14	3.2	4	15
20100104				
0.14mm ²	4x0.14	3.5	6	18
20100105				
0.14mm ²	5x0.14	4.0	7	23
20100107				
0.14mm ²	7x0.14	4.2	10	29
20100109				
0.14mm ²	9x0.14	5.0	12	37
20100110				
0.14mm ²	10x0.14	5.4	13	41

20100114				
0.14mm ²	14x0.14	6.0	19	50
20100120				
0.14mm ²	20x0.14	7.1	26	71
20100125				
0.14mm ²	25x0.14	7.9	33	82
20100202				
0.22mm ²	2x0.22	3.4	5	15
20100203				
0.22mm ²	3x0.22	3.6	7	19
20100204				
0.22mm ²	4x0.22	3.9	9	24
20100205				
0.22mm ²	5x0.22	4.5	11	28
20100206				
0.22mm ²	6x0.22	4.7	13	34
20100207				
0.22mm ²	7x0.22	4.7	15	37
20100209				
0.22mm ²	9x0.22	5.7	19	46
20100210				
0.22mm ²	10x0.22	6.2	21	53
20100216				
0.22mm ²	16x0.22	7.2	34	76
20100220				
0.22mm ²	20x0.22	7.9	42	94
20100225				

0.22mm ²	25x0.22	9.0	53	117
20100302				
0.25mm ²	2x0.25	3.5	5	16
20100303				
0.25mm ²	3x0.25	3.7	7	21
20100304				
0.25mm ²	4x0.25	4.1	10	26
20100305				
0.25mm ²	5x0.25	4.7	12	32
20100306				
0.25mm ²	6x0.25	5.0	14	37
20100307				
0.25mm ²	7x0.25	5.5	16	42
20100309				
0.25mm ²	9x0.25	6.0	21	52
20100210				
0.25mm ²	10x0.25	6.4	23	58
20100316				
0.25mm ²	16x0.25	7.5	37	86
20100320				
0.25mm ²	20x0.25	8.5	47	105
20100325				
0.25mm ²	25x0.25	9.5	58	126
20100402				
0.34mm ²	2x0.34	4.0	7	20
20100403				
0.34mm ²	3x0.34	4.1	10	27

20100404				
0.34mm ²	4x0.34	4.5	13	34
20100405				
0.34mm ²	5x0.34	5.5	16	40
20100406				
0.34mm ²	6x0.34	5.7	19	48
20100407				
0.34mm ²	7x0.34	5.7	21	53
20100408				
0.34mm ²	8x0.34	6.3	26	61
20100409				
0.34mm ²	9x0.34	6.9	29	69
20100410				
0.34mm ²	10x0.34	7.4	32	76
20100416				
0.34mm ²	16x0.34	8.5	52	110
20100420				
0.34mm ²	20x0.34	9.5	65	138
20100425				
0.34mm ²	25x0.34	10.7	81	174
20100502				
0.50mm ²	2x0.50	4.5	9	26
20100503				
0.50mm ²	3x0.50	4.8	13	33
20100504				
0.50mm ²	4x0.50	5.4	17	41
20100505				
0.50mm ²	5x0.50	6.0	18	50

20100506				
0.50mm ²	6x0.50	6.5	26	60
20100507				
0.50mm ²	7x0.50	6.5	30	67
20100508				
0.50mm ²	8x0.50	7.4	34	77
20100509				
0.50mm ²	9x0.50	7.7	38	85
20100510				
0.50mm ²	10x0.50	8.3	43	93
20100512				
0.50mm ²	12x0.50	8.7	52	110
20100516				
0.50mm ²	16x0.50	9.7	69	150
20100520				
0.50mm ²	20x0.50	11.0	86	176
20100525				
0.50mm ²	25x0.50	12.0	109	223
20100802				
0.75mm ²	2x0.75	5.0	13	31
20100803				
0.75mm ²	3x0.75	5.6	19	42
20100804				
0.75mm ²	4x0.75	6.0	26	54
20100805				
0.75mm ²	5x0.75	7.0	32	64
20100806				

0.75mm ²	6x0.75	7.3	38	78
20100807				
0.75mm ²	7x0.75	7.3	45	87
20100808				
0.75mm ²	8x0.75	8.2	51	99
20100809				
0.75mm ²	9x0.75	8.8	57	116
20100810				
0.75mm ²	10x0.75	9.4	64	129
20100812				
0.75mm ²	12x0.75	9.7	77	150
20100814				
0.75mm ²	14x0.75	10.4	90	175
20100816				
0.75mm ²	16x0.75	11.1	103	195
20100818				
0.75mm ²	18x0.75	11.5	116	215
20100820				
0.75mm ²	20x0.75	12.5	129	237
20100825				
0.75mm ²	25x0.75	14.0	162	305
20101002				
1.00mm ²	2x1.00	5.6	17	39
20101003				
1.00mm ²	3x1.00	5.9	25	52
20101004				
1.00mm ²	4x1.00	6.5	34	67

20101005				
1.00mm ²	5x1.00	6.7	42	81
20101006				
1.00mm ²	6x1.00	7.8	51	97
20101007				
1.00mm ²	7x1.00	7.9	59	108
20101008				
1.00mm ²	8x1.00	9.0	67	124
20101009				
1.00mm ²	9x1.00	9.5	76	143
20101010				
1.00mm ²	10x1.00	10.2	85	162
20101012				
1.00mm ²	12x1.00	10.5	103	188
20101014				
1.00mm ²	14x1.00	11.3	120	219
20101016				
1.00mm ²	16x1.00	12.0	137	245
20101018				
1.00mm ²	18x1.00	12.7	154	274
20101020				
1.00mm ²	20x1.00	13.5	172	308
20101025				
1.00mm ²	25x1.00	15.0	215	375
20101502				
1.50mm ²	2x1.50	6.5	25	55
20101503				
1.50mm ²	3x1.50	7.0	38	76

20101504				
1.50mm ²	4x1.50	7.7	51	95
20101505				
1.50mm ²	5x1.50	8.7	64	119
20101506				
1.50mm ²	6x1.50	9.3	76	139
20101507				
1.50mm ²	7x1.50	9.4	89	158
20101508				
1.50mm ²	8x1.50	10.4	101	178
20101509				
1.50mm ²	9x1.50	11.3	114	204
20101510				
1.50mm ²	10x1.50	12.2	127	233
20101512				
1.50mm ²	12x1.50	12.8	153	277
20101514				
1.50mm ²	14x1.50	13.6	179	316
20101516				
1.50mm ²	16x1.50	14.3	206	360
20101520				
1.50mm ²	20x1.50	16.0	258	451
20101525				
1.50mm ²	25x1.50	18.0	322	560
20102502				
2.50mm ²	2x2.50	7.8	42	83
20102503				

2.50mm ²	3x2.50	8.3	62	114
20102504				
2.50mm ²	4x2.50	9.1	84	150
20102505				
2.50mm ²	5x2.50	10.7	105	186

Areas of use

These PVC 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. These for indoor applications.

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
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