



Applications

These type of cables which PVC sheathed and braiding screened are used in industrial applications for signal transmission. They 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.

Construction

Conductor	Stranded Electrolytic Annealed Copper (IEC 228/VDE0295/HD383/BS 6360 Class 5, 0.34 mm ² : Column 3)
Insulation	PVC (EN 50290-2/HD 21.1.S4/VDE 0281-TI2), Color Code: DIN 47100
Lay-up	All cores as layers
Separator	PES Tape
Screen	Tinned Copper Wire Braiding (70% Coverage) (EN 50288)
Outer Sheath	PVC (EN 50290-2/HD 21.1.S4/VDE 0281 TM 1) Outer Sheath Color: RAL 7001 Grey

Reference Standards	VDE 0812
Flame Test	IEC 60332-1, VDE 0482-265-2-1

Technical and Electrical Properties (20°C)

			Cross Section	Conductor Resistance (Max. Ω/Km)	Capacitance (Core/Core nF/Km)	Capacitance (Core/Screen nF/Km)
Operating Voltage	0.14 mm ² ...0.25 mm ²	250 V	0.14 mm ²	138.0	80	120
	0.34 mm ² ...1.50 mm ²	300 V / 500 V	0.22 mm ²	85.0	100	150
	2.50 mm ²	450 V / 750 V	0.25 mm ²	77.8	100	150
Test Voltage	0.14 mm ² ...0.25 mm ²	1200 V	0.34 mm ²	56.0	100	150
	0.34 mm ² ...1.00 mm ²	1500 V	0.50 mm ²	39.0	110	170
	1.50 mm ²	2500 V	0.75 mm ²	26.0	110	170
Insulation Resistance	Min. 200 M.Ωm x Km		1.00 mm ²	19.5	120	180
Inductance	Approx. 0.65 mH / Km		1.50 mm ²	13.3	120	180
Current Carrying Capacity	See Technical Data Table 4		2.50 mm ²	7.98	140	240
Temperature Range	Fixed	-30 °C... +70 °C				
	Flexible	-5 °C... +70 °C				
Minimum Bending Radius	Fixed	7.5 x Cable Diameter				
	Flexible	15 x Cable Diameter				

* LSF type of LIYCY cables can be produced as well.

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
0.14 mm²				
21100102	2x0.14	3.8	7.6	20
21100103	3x0.14	4.0	10.2	25
21100104	4x0.14	4.2	11.8	28
21100105	5x0.14	4.6	13.3	31
21100106	6x0.14	5.1	15.3	37
21100107	7x0.14	5.1	17.0	39
21100108	8x0.14	5.3	19.5	43
21100109	9x0.14	5.7	22.1	48
21100110	10x0.14	6.1	24.2	53
21100112	12x0.14	6.3	27.5	59
21100114	14x0.14	6.6	30.6	66
21100116	16x0.14	7.0	33.7	74
21100118	18x0.14	7.3	37.3	82
21100120	20x0.14	7.7	42.8	91
21100125	25x0.14	8.4	53.7	109

0.22 mm²				
21100202	2x0.22	4.0	10.1	23
21100203	3x0.22	4.2	12.7	29
21100204	4x0.22	4.5	15.3	34
21100205	5x0.22	4.8	18.0	40
21100206	6x0.22	5.4	20.4	46
21100207	7x0.22	5.4	22.4	49
21100208	8x0.22	5.7	25.7	53
21100209	9x0.22	6.2	29.0	60
21100210	10x0.22	6.7	34.1	68
21100212	12x0.22	7.0	38.3	76
21100214	14x0.22	7.5	43.5	85
21100216	16x0.22	7.8	48.8	95
21100218	18x0.22	8.2	54.1	105
21100220	20x0.22	8.5	58.8	116
21100225	25x0.22	9.6	76.6	146

PART NUMBER	NO. OF CORES/ CROSS SECTION (mm²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
0.25 mm²				
21100302	2x0.25	4.3	11.0	26
21100303	3x0.25	4.5	13.9	31
21100304	4x0.25	4.8	16.8	36
21100305	5x0.25	5.1	20.0	42
21100306	6x0.25	5.6	23.1	48
21100307	7x0.25	5.6	25.5	52
21100308	8x0.25	6.4	28.5	58
21100309	9x0.25	6.6	31.5	63
21100310	10x0.25	6.9	34.7	68
21100312	12x0.25	7.2	41.4	80
21100314	14x0.25	7.5	48.2	92
21100316	16x0.25	8.1	57.0	113
21100318	18x0.25	8.5	63.0	119
21100320	20x0.25	9.0	69.0	130
21100325	25x0.25	10.1	82.4	158

0.34 mm²				
21100402	2x0.34	4.6	13.7	30
21100403	3x0.34	4.9	17.1	37
21100404	4x0.34	5.4	21.5	45
21100405	5x0.34	5.8	25.1	53
21100406	6x0.34	6.3	29.5	61
21100407	7x0.34	6.3	32.8	67
21100408	8x0.34	6.8	37.2	74
21100409	9x0.34	7.3	42.8	83
21100410	10x0.34	7.9	48.9	93
21100412	12x0.34	8.4	58.5	110
21100414	14x0.34	8.7	66.5	125
21100416	16x0.34	9.3	74.1	139
21100418	18x0.34	9.8	83.0	156
21100420	20x0.34	10.3	90.7	170
21100425	25x0.34	11.4	110.0	205

LIYCY

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
-------------	--	---------------------------	--------------------------	-------------------------

0.50 mm²

21100502	2x0.50	5.1	16.6	37
21100503	3x0.50	5.4	21.0	44
21100504	4x0.50	5.9	27.3	56
21100505	5x0.50	6.5	32.3	68
21100506	6x0.50	7.1	38.9	80
21100507	7x0.50	7.1	44.2	87
21100508	8x0.50	7.8	51.3	105
21100509	9x0.50	8.2	56.0	112
21100510	10x0.50	8.9	61.7	118
21100512	12x0.50	9.3	71.0	140
21100514	14x0.50	10.0	80.5	155
21100516	16x0.50	10.8	90.0	180
21100518	18x0.50	11.3	99.5	196
21100520	20x0.50	12.0	108.6	211
21100525	25x0.50	13.0	134.0	258

0.75 mm²

21100802	2x0.75	5.6	22.0	47
21100803	3x0.75	5.9	29.0	56
21100804	4x0.75	6.5	36.2	72
21100805	5x0.75	7.1	45.2	88
21100806	6x0.75	7.8	54.1	101
21100807	7x0.75	7.8	63.3	113
21100808	8x0.75	8.6	70.0	133
21100809	9x0.75	9.4	78.0	142
21100810	10x0.75	10.1	90.3	160
21100812	12x0.75	10.5	105.0	179
21100814	14x0.75	11.0	120.0	206
21100816	16x0.75	11.7	135.0	235
21100818	18x0.75	12.3	150.0	260
21100820	20x0.75	13.2	164.0	280
21100825	25x0.75	14.6	198.0	340

1.00 mm²

21101002	2x1.00	6.0	27.8	55
21101003	3x1.00	6.3	37.6	70
21101004	4x1.00	7.1	47.8	86
21101005	5x1.00	7.7	59.1	105
21101006	6x1.00	8.4	68.8	121
21101007	7x1.00	8.4	78.8	132
21101008	8x1.00	9.1	95.2	158

PART NUMBER	NO.OF CORES/ CROSS SECTION (mm²)	CABLE DIAMETER (mm)	COPPER WEIGHT (Kg/Km)	CABLE WEIGHT (Kg/Km)
-------------	--	---------------------------	--------------------------	-------------------------

21101009	9x1.00	10.1	106.6	174
21101010	10x1.00	10.7	115.5	189
21101012	12x1.00	10.9	135.0	216
21101014	14x1.00	11.8	154.4	246
21101016	16x1.00	12.5	172.0	282
21101018	18x1.00	13.3	191.0	308
21101020	20x1.00	14.0	218.4	350
21101025	25x1.00	15.7	262.5	420

1.50 mm²

21101502	2x1.50	7.0	38.9	73
21101503	3x1.50	7.4	53.0	92
21101504	4x1.50	8.2	67.8	115
21101505	5x1.50	9.1	84.0	142
21101506	6x1.50	9.9	99.8	168
21101507	7x1.50	9.9	112.5	184
21101508	8x1.50	10.8	132.3	225
21101509	9x1.50	11.7	151.2	244
21101510	10x1.50	12.7	166.9	272
21101512	12x1.50	13.4	192.0	310
21101514	14x1.50	14.1	222.6	360
21101516	16x1.50	15.0	252.0	410
21101518	18x1.50	15.7	278.0	441
21101520	20x1.50	16.7	306.6	485
21101525	25x1.50	18.7	372.0	595

2.50 mm²

21102502	2x2.50	8.3	57.8	111
21102503	3x2.50	8.9	84.1	142
21102504	4x2.50	10.0	113.4	188
21102505	5x2.50	11.0	137.7	225
21102506	6x2.50	11.9	162.9	263
21102507	7x2.50	11.9	188.5	298
21102508	8x2.50	13.1	211.0	335
21102509	9x2.50	14.2	236.3	377
21102510	10x2.50	15.6	262.0	426
21102512	12x2.50	16.0	307.7	490
21102514	14x2.50	17.0	354.8	568
21102516	16x2.50	18.0	401.1	646
21102518	18x2.50	19.0	448.0	703
21102520	20x2.50	20.0	495.0	775