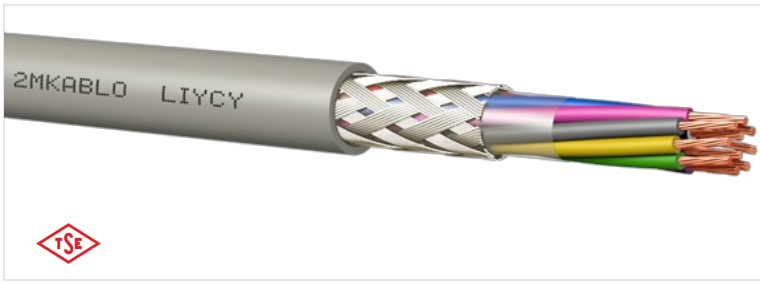
LIYCY



Areas of Use

This 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 the communication sector, electronic circuits, measurement devices, machine design, office equipment, etc. Screening protects the cable from the outer electrical effects.

Cable Construction

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 5, 0.34 mm²: Class 2)
Insulation	PVC (EN 50290-2-21)
Core Colors	DIN 47100 (4 cores colors, white, yellow, brown, green)
Lay-up	Cores are stranded in layers
Separator	PET Foil
Screen	Tinned Copper Wire Braid
Outer Sheath	PVC (EN 50290-2-22), RAL 7001 - Grey
Reference Standards	VDE 0812, TS 13755

Technical Properties

Operating Voltage	0.14 mm²..0.25 mm² 250 V; 0.34 mm²..1.50 mm² 300 V / 500 V; 2.50 mm²..... 450 V / 750 V
Test Voltage	0.14 mm² - 800 V; 0.22 mm² ....1.00 mm²- 1200 V; 1.50 mm²..... 2.50 mm² - 2500 V
Conductor Resistance	0.14 mm²- ≤138 Ω/km; 0.22 mm²- ≤85 Ω/km; 0.25 mm²- ≤77.8 Ω/km;0.34 mm²- ≤56 Ω/km; 0.50 mm²- ≤39 Ω/km; 0.75 mm²- ≤26 Ω/km; 1.00 mm²- ≤19.5 Ω/km; 1.50 mm²- ≤13.3 Ω/km
Insulation Resistance	>200 M.Ωxkm
Capacitance (@800Hz)	Core - Core: 0.14 mm²-≤80 nF/km; 0.22 mm²..0.34 mm²-≤100 nF/km; 0.50 mm²..0.75 mm²-≤110 nF/km; 1.00 mm²..1.50 mm²-≤120nF/km; 2.50 mm²- ≤140 nF/km Core-Screen: 0.14 mm²-≤120 nF/km; 0.22 mm²..0.34 mm²-≤150 nF/km; 0.50 mm²..0.75 mm²-≤170 nF/km; 1.00 mm²..1.50 mm²-≤180nF/km; 2.50 mm²- ≤240 nF/km
Indutance (approx.)	0.65 mH/km
Temperature Range	Fixed: -30 °C .....+70 °C, Flexible: -5 °C .....+70 °C
Flame Retardancy	IEC/EN 60332-1
Min. Bending Radius	Fixed: 8 x Cable Diameter, Flexible: 15 x Cable Diameter

Cross Section

Configuration / Cross-Section (mm/mm²)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x0.5	5.0	16	38
3x0.5	5.2	21	46
4x0.5	5.7	27	56

5x0.5	6.3	32	71
6x0.5	6.9	37	84
7x0.5	6.9	42	87
8x0.5	7.5	47	103
9x0.5	8.1	52	117
10x0.5	8.9	58	127
12x0.5	9.1	67	143
14x0.5	9.6	77	167
16x0.5	10.1	87	185
18x0.5	10.7	96	203
20x0.5	11.4	107	225
25x0.5	12.7	130	278
2x0.75	5.6	22	48
3x0.75	5.8	29	58
4x0.75	6.4	36	72
5x0.75	7.0	44	92
6x0.75	7.7	52	108
7x0.75	7.7	58	113
8x0.75	8.4	66	134
9x0.75	9.1	74	151
10x0.75	10.0	82	165
12x0.75	10.4	96	190
14x0.75	10.9	110	218
16x0.75	11.5	124	246
18x0.75	12.3	138	273
20x0.75	12.9	152	298
25x0.75	14.4	188	367
2x1	5.8	27	54
3x1	6.2	36	68
4x1	6.8	46	86
5x1	7.5	56	110
6x1	8.2	66	129
7x1	8.2	74	135
8x1	8.9	84	160
9x1	9.7	94	180
10x1	10.6	105	197
12x1	10.9	123	223
14x1	11.5	141	261
16x1	12.3	160	298
18x1	12.9	179	323
20x1	13.7	197	357
25x1	15.3	244	441
2x1.5	7.0	37	77
3x1.5	7.3	51	95
4x1.5	8.1	65	123
5x1.5	9.0	80	158

6x1.5	9.8	95	185
7x1.5	9.8	108	195
8x1.5	10.7	122	231
9x1.5	11.6	137	259
10x1.5	12.8	152	285
12x1.5	13.3	179	330
14x1.5	13.9	206	381
16x1.5	14.7	233	429
18x1.5	15.6	261	469
20x1.5	16.6	295	525
25x1.5	18.5	364	647
2x2.5	8.1	56	108
3x2.5	8.5	79	137
4x2.5	9.3	102	173
5x2.5	10.4	126	226
6x2.5	11.4	150	265
7x2.5	11.4	171	282
8x2.5	12.5	195	337
9x2.5	13.6	218	378
10x2.5	14.8	242	410
12x2.5	15.4	287	476
14x2.5	16.3	337	563
16x2.5	17.3	383	634
18x2.5	18.3	428	694
20x2.5	19.4	484	779

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