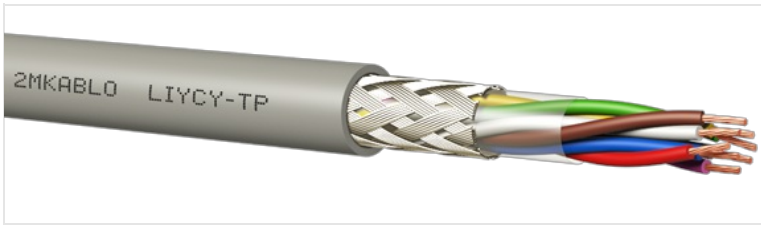
LIYCY-TP



Areas of Use

These PVC sheathed cables(screened) 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 against 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 or Black-White and Numbered
Lay-up	Cores are twisted as pairs and pairs 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
Loop Resistance	0.14 mm²-≤276 Ω/km; 0.22 mm²-≤170 Ω/km; 0.25 mm²-≤155.6 Ω/km; 0.34 mm²-≤112 Ω/km; 0.50 mm²-≤78 Ω/km; 0.75 mm²-≤52 Ω/km; 1.00 mm²-≤39 Ω/km; 1.50 mm²-≤26.6 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)
2x2x0.5	7.4	29	71
3x2x0.5	7.9	39	88
4x2x0.5	8.7	49	110
5x2x0.5	9.7	60	136

6x2x0.5	10.6	70	160
8x2x0.5	11.6	89	199
10x2x0.5	13.8	111	256
12x2x0.5	14.3	129	292
2x2x0.75	8.4	40	90
3x2x0.75	9.0	54	116
4x2x0.75	9.9	69	145
5x2x0.75	10.9	84	175
6x2x0.75	12.0	99	209
8x2x0.75	13.2	127	265
10x2x0.75	15.6	157	334
12x2x0.75	16.3	190	390
2x2x1	8.9	50	106
3x2x1	9.4	68	134
4x2x1	10.5	87	172
5x2x1	11.6	107	208
6x2x1	12.8	126	248
8x2x1	13.9	163	311
10x2x1	16.7	209	404
12x2x1	17.3	245	464
2x2x1.5	10.6	70	149
3x2x1.5	11.4	98	194
4x2x1.5	12.6	126	247
5x2x1.5	13.9	154	299
6x2x1.5	15.4	183	358
8x2x1.5	16.9	243	455
10x2x1.5	20.2	314	591
12x2x1.5	20.9	367	679

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