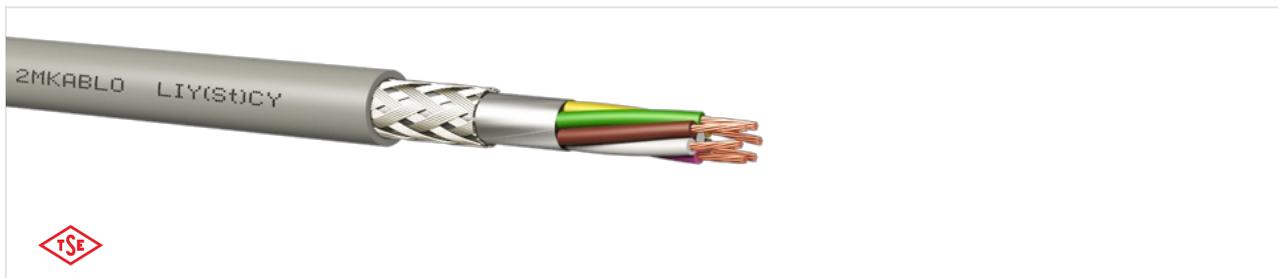


## LIY(St)CY



### Areas of Use

These double screened cables are used as signal transmission cables in industrial applications. 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. These used for indoor applications. Screening protects the cable from the outer electrical effects.

### Cable Construction

<b>Conductor</b>	Stranded Annealed Copper (IEC/EN 60228, Class 5, 0.34 mm <sup>2</sup> : Class 2)
<b>Insulation</b>	PVC (EN 50290-2-21)
<b>Core Colors</b>	DIN 47100 (4 cores colors, white, yellow, brown, green)
<b>Lay-up</b>	Cores are stranded in layers
<b>1. Screen</b>	Al-PET Foil
<b>2. Screen</b>	Tinned Copper Wire Braid
<b>Outer Sheath</b>	PVC (EN 50290-2-22), RAL 7001 - Grey
<b>Reference Standards</b>	VDE 0812, TS 13755

### Technical Properties

<b>Operating Voltage</b>	0.14 mm <sup>2</sup> ..0.25 mm <sup>2</sup> 250 V; 0.34 mm <sup>2</sup> ..1.50 mm <sup>2</sup> 300 V / 500 V
<b>Test Voltage</b>	0.14 mm <sup>2</sup> ..25 mm <sup>2</sup> 1200 V; 0.34 mm <sup>2</sup> ..10 mm <sup>2</sup> 1500 V; 1.50 mm <sup>2</sup> ..... 2500 V
<b>Conductor Resistance</b>	0.14 mm <sup>2</sup> - ≤138 Ω/km; 0.22 mm <sup>2</sup> - ≤85 Ω/km; 0.25 mm <sup>2</sup> - ≤77.8 Ω/km; 0.34 mm <sup>2</sup> - ≤56 Ω/km; 0.50 mm <sup>2</sup> - ≤39 Ω/km; 0.75 mm <sup>2</sup> - ≤26 Ω/km; 1.00 mm <sup>2</sup> - ≤19.5 Ω/km; 1.50 mm <sup>2</sup> - ≤13.3 Ω/km
<b>Insulation Resistance</b>	>200 M.Ωxkm
<b>Capacitance (@800Hz)</b>	Core - Core: 0.14 mm <sup>2</sup> -≤80 nF/km; 0.22 mm <sup>2</sup> ..0.34 mm <sup>2</sup> -≤100 nF/km; 0.50 mm <sup>2</sup> ..0.75 mm <sup>2</sup> -≤110 nF/km; 1.00 mm <sup>2</sup> ..1.50 mm <sup>2</sup> -≤120nF/km; 2.50 mm <sup>2</sup> - ≤140 nF/km Core-Screen: 0.14 mm <sup>2</sup> -≤120 nF/km; 0.22 mm <sup>2</sup> ..0.34 mm <sup>2</sup> -≤150 nF/km; 0.50 mm <sup>2</sup> ..0.75 mm <sup>2</sup> -≤170 nF/km; 1.00 mm <sup>2</sup> ..1.50 mm <sup>2</sup> -≤180nF/km; 2.50 mm <sup>2</sup> - ≤240 nF/km
<b>Indutance (approx.)</b>	0.65 mH/km
<b>Temperature Range</b>	Fixed: -30 °C .....+70 °C, Flexible: -5 °C .....+70 °C
<b>Flame Retardancy</b>	IEC/EN 60332-1
<b>Min. Bending Radius</b>	Fixed: 8 x Cable Diameter, Flexible: 15 x Cable Diameter

### Cross Section

Configuration / Cross-Section (mm/mm <sup>2</sup> )	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x0.5	4.9	14	35
3x0.5	5.2	19	43
4x0.5	5.6	24	52

5x0.5	6.2	29	67
6x0.5	6.8	34	78
7x0.5	6.8	38	81
8x0.5	7.4	43	97
9x0.5	8.1	48	109
10x0.5	8.8	53	119
2x0.75	5.5	19	44
3x0.75	5.7	26	53
4x0.75	6.3	33	67
5x0.75	7.0	40	86
6x0.75	7.7	47	101
7x0.75	7.7	53	106
8x0.75	8.4	60	126
9x0.75	9.1	68	142
10x0.75	9.9	75	154
2x1	5.8	24	50
3x1	6.1	32	64
4x1	6.7	42	80
5x1	7.4	51	103
6x1	8.2	60	121
7x1	8.2	68	127
8x1	8.9	78	151
9x1	9.6	87	170
10x1	10.5	97	185
2x1.5	6.9	34	71
3x1.5	7.3	47	92
4x1.5	8.1	60	115
5x1.5	8.9	74	148
6x1.5	9.8	87	173
7x1.5	9.8	99	183
8x1.5	10.7	113	217
9x1.5	11.5	127	244
10x1.5	12.7	141	268

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