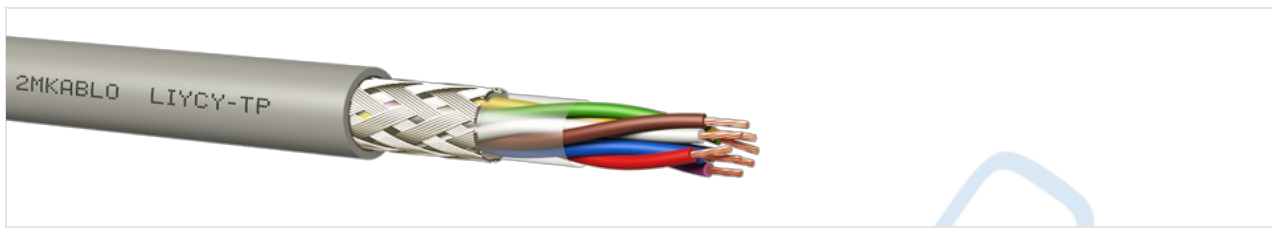


## LIYCY-TP



### 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

|                            |  |
|----------------------------|--|
| <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 or Black-White and Numbered  |
| <b>Lay-up</b>              | Cores are twisted as pairs and pairs are stranded in layers                      |
| <b>Separator</b>           | PET Foil   |
| <b>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; 2.50 mm <sup>2</sup> ..... 450 V / 750 V  |
| <b>Test Voltage</b>          | 0.14 mm <sup>2</sup> - 800 V; 0.22 mm <sup>2</sup> .... 1.00 mm <sup>2</sup> - 1200 V; 1.50 mm <sup>2</sup> ..... 2.50 mm <sup>2</sup> - 2500 V   |
| <b>Loop Resistance</b>       | 0.14 mm <sup>2</sup> -≤276 Ω/km; 0.22 mm <sup>2</sup> -≤170 Ω/km; 0.25 mm <sup>2</sup> -≤155.6 Ω/km; 0.34 mm <sup>2</sup> -≤112 Ω/km; 0.50 mm <sup>2</sup> -≤78 Ω/km; 0.75 mm <sup>2</sup> -≤52 Ω/km; 1.00 mm <sup>2</sup> -≤39 Ω/km; 1.50 mm <sup>2</sup> -≤26.6 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<br>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>Inductance (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) |
|---|----------------------------|-------------------------|--------------------------|
| 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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