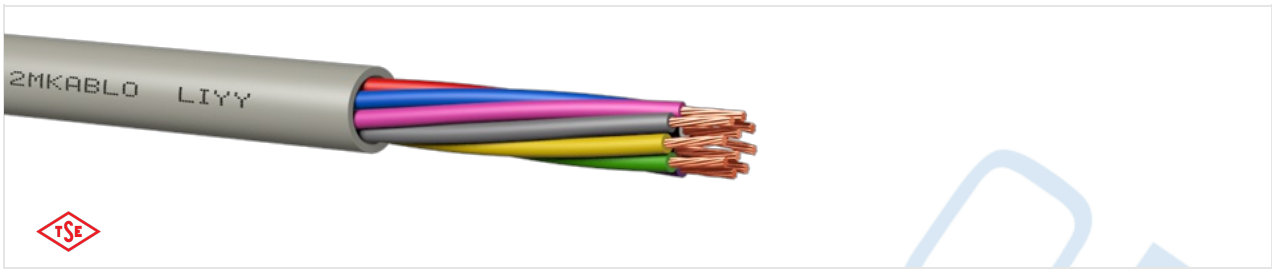


## LIYY



### Areas of Use

These PVC 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 communication sector, electronic circuits, measurement devices, machine design, office equipment, etc. These for indoor applications.

### 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>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>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                    |
| <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   | 4.4                        | 9                       | 27                       |
| 3x0.5   | 4.7                        | 13                      | 34                       |
| 4x0.5   | 5.2                        | 17                      | 44                       |
| 5x0.5   | 5.7                        | 22                      | 57                       |
| 7x0.5   | 6.3                        | 30                      | 71                       |
| 9x0.5   | 7.6                        | 39                      | 98                       |

|         |      |     |     |
|---------|------|-----|-----|
| 10x0.5  | 8.3  | 43  | 106 |
| 14x0.5  | 9.1  | 61  | 145 |
| 16x0.5  | 9.7  | 70  | 164 |
| 20x0.5  | 10.8 | 87  | 198 |
| 25x0.5  | 12.3 | 109 | 251 |
| 2x0.75  | 5.0  | 13  | 35  |
| 3x0.75  | 5.3  | 20  | 46  |
| 4x0.75  | 5.8  | 26  | 57  |
| 5x0.75  | 6.5  | 33  | 76  |
| 7x0.75  | 7.2  | 46  | 95  |
| 9x0.75  | 8.6  | 59  | 130 |
| 10x0.75 | 9.4  | 65  | 141 |
| 14x0.75 | 10.4 | 91  | 196 |
| 16x0.75 | 11.1 | 104 | 222 |
| 18x0.75 | 11.7 | 117 | 244 |
| 20x0.75 | 12.5 | 130 | 271 |
| 25x0.75 | 13.9 | 163 | 333 |
| 2x1     | 5.4  | 17  | 43  |
| 3x1     | 5.6  | 26  | 54  |
| 4x1     | 6.2  | 35  | 70  |
| 5x1     | 6.9  | 43  | 92  |
| 7x1     | 7.7  | 61  | 116 |
| 9x1     | 9.1  | 78  | 158 |
| 10x1    | 10.0 | 87  | 171 |
| 14x1    | 11.1 | 122 | 237 |
| 16x1    | 11.8 | 139 | 269 |
| 18x1    | 12.5 | 156 | 296 |
| 20x1    | 13.2 | 174 | 329 |
| 25x1    | 14.8 | 217 | 404 |
| 2x1.5   | 6.4  | 26  | 61  |
| 3x1.5   | 6.8  | 39  | 81  |
| 4x1.5   | 7.6  | 52  | 104 |
| 5x1.5   | 8.4  | 65  | 137 |
| 7x1.5   | 9.3  | 91  | 171 |
| 9x1.5   | 11.1 | 117 | 235 |
| 10x1.5  | 12.3 | 130 | 259 |
| 14x1.5  | 13.5 | 182 | 352 |
| 16x1.5  | 14.3 | 208 | 398 |
| 20x1.5  | 15.9 | 260 | 479 |
| 25x1.5  | 17.9 | 325 | 596 |
| 2x2.5   | 7.5  | 43  | 89  |
| 3x2.5   | 7.9  | 65  | 117 |
| 4x2.5   | 8.9  | 87  | 154 |
| 5x2.5   | 9.8  | 108 | 201 |

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