

LiYCY Shielded PVC Data Cable



LiYCY is a VDE approved, flexible, overall shielded, PVC multi-conductor European data transmission cable. For use in flexible or stationary applications under low mechanical stress with free movement without any tensile stress, loads or forced movements in dry, moist and wet conditions. Commonly used as control and signal cables in the electronics of computers systems, electronic control equipment, office machines and measurement devices in the tool making and machine industries. The tinned copper braid shield offers better protection against electrical interference for precise impulse transmissions. **LiYCY** is recommended when a small outer diameter is required. Not permitted for outdoor use.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- 22 AWG (0,34mm2) has a 7-wire strand
- Special PVC core insulation
- Color code DIN47100 - without color repetition
- Plastic foil separator
- 85% tinned copper braid
- PVC outer jacket - gray (RAL 7001)
- **Extremely oil resistant**

Technical:

- Working voltage: 350/500 volts
- Test voltage: 1200/1500 volts
- Flexing bending radius: 10 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -40° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245 & 0812
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

| PART NUMBER | CORES | NOMINAL OD | CU LBS/MFT | WT LBS/MFT |
|-------------------------------|-------|-----------------|------------|------------|
| 26 AWG (18/38) 0,14mm2 | | | | |
| 5012602 | 2 | 0.146" / 3.7mm | 7 | 13 |
| 5012603 | 3 | 0.150" / 3.8mm | 8 | 18 |
| 5012604 | 4 | 0.161" / 4.1mm | 9 | 21 |
| 5012605 | 5 | 0.181" / 4.6mm | 10 | 25 |
| 5012606 | 6 | 0.193" / 4.9mm | 12 | 28 |
| 5012607 | 7 | 0.201" / 5.1mm | 13 | 32 |
| 5012608 | 8 | 0.209" / 5.3mm | 14 | 37 |
| 5012610 | 10 | 0.236" / 6.0mm | 19 | 44 |
| 5012612 | 12 | 0.244" / 6.2mm | 20 | 52 |
| 5012614 | 14 | 0.260" / 6.6mm | 21 | 53 |
| 5012616 | 16 | 0.272" / 6.9mm | 29 | 60 |
| 5012618 | 18 | 0.280" / 7.1mm | 34 | 69 |
| 5012620 | 20 | 0.299" / 7.6mm | 37 | 78 |
| 5012621 | 21 | 0.303" / 7.7mm | 38 | 80 |
| 5012624 | 24 | 0.315" / 8.0mm | 40 | 88 |
| 5012625 | 25 | 0.319" / 8.1mm | 42 | 91 |
| 5012627 | 27 | 0.339" / 8.6mm | 44 | 95 |
| 5012630 | 30 | 0.350" / 8.9mm | 46 | 105 |
| 5012632 | 32 | 0.358" / 9.1mm | 51 | 109 |
| 5012636 | 36 | 0.382" / 9.7mm | 56 | 122 |
| 5012640 | 40 | 0.402" / 10.2mm | 59 | 140 |
| 5012642 | 42 | 0.409" / 10.4mm | 63 | 146 |
| 5012644 | 44 | 0.425" / 10.8mm | 74 | 152 |
| 5012648 | 48 | 0.433" / 11.0mm | 77 | 161 |
| 5012650 | 50 | 0.441" / 11.2mm | 80 | 171 |
| 5012652 | 52 | 0.449" / 11.4mm | 83 | 181 |
| 5012656 | 56 | 0.465" / 11.8mm | 89 | 215 |
| 5012661 | 61 | 0.480" / 12.2mm | 98 | 248 |
| 5012680 | 80 | 0.748" / 19.0mm | 152 | 342 |
| 5012600 | 100 | 0.906" / 23.0mm | 179 | 389 |
| 24 AWG (14/34) 0,25mm2 | | | | |
| 5012402 | 2 | 0.169" / 4.3mm | 10 | 21 |
| 5012403 | 3 | 0.177" / 4.5mm | 12 | 24 |
| 5012404 | 4 | 0.193" / 4.9mm | 15 | 27 |
| 5012405 | 5 | 0.209" / 5.3mm | 17 | 34 |
| 5012406 | 6 | 0.220" / 5.6mm | 21 | 39 |
| 5012407 | 7 | 0.228" / 5.8mm | 23 | 43 |
| 5012408 | 8 | 0.248" / 6.3mm | 28 | 55 |

Sizes continued on next page.

LiYCY Shielded PVC Data Cable



LiYCY Sizes Continued. (24, 22 & 20 AWG)

| PART NUMBER | CORES | NOMINAL OD | CU LBS/MFT | WT LBS/MFT |
|-------------------------------------|-------|-----------------|------------|------------|
| 24 AWG (14/34) 0,25mm2 Cont. | | | | |
| 5012410 | 10 | 0.276" / 7.0mm | 34 | 57 |
| 5012412 | 12 | 0.287" / 7.3mm | 39 | 60 |
| 5012414 | 14 | 0.307" / 7.8mm | 42 | 66 |
| 5012416 | 16 | 0.323" / 8.2mm | 45 | 74 |
| 5012418 | 18 | 0.339" / 8.6mm | 52 | 93 |
| 5012420 | 20 | 0.358" / 9.1mm | 59 | 98 |
| 5012421 | 21 | 0.370" / 9.4mm | 61 | 102 |
| 5012424 | 24 | 0.402" / 10.2mm | 64 | 105 |
| 5012425 | 25 | 0.409" / 10.4mm | 68 | 109 |
| 5012427 | 27 | 0.421" / 10.7mm | 78 | 113 |
| 5012430 | 30 | 0.429" / 10.9mm | 87 | 118 |
| 5012432 | 32 | 0.433" / 11.0mm | 91 | 127 |
| 5012436 | 36 | 0.461" / 11.7mm | 97 | 147 |
| 5012440 | 40 | 0.476" / 12.1mm | 100 | 166 |
| 5012442 | 42 | 0.500" / 12.7mm | 104 | 180 |
| 5012444 | 44 | 0.516" / 13.1mm | 108 | 196 |
| 5012448 | 48 | 0.524" / 13.3mm | 110 | 113 |
| 5012450 | 50 | 0.539" / 13.7mm | 113 | 206 |
| 5012452 | 52 | 0.551" / 14.0mm | 117 | 213 |
| 5012456 | 56 | 0.567" / 14.4mm | 127 | 230 |
| 5012461 | 61 | 0.583" / 14.8mm | 137 | 245 |
| 5012480 | 80 | 1.004" / 25.5mm | 260 | 322 |
| 5012400 | 100 | 1.102" / 28.0mm | 339 | 406 |
| 22 AWG (7/30) 0,34mm2 | | | | |
| 5012202 | 2 | 0.189" / 4.8mm | 12 | 20 |
| 5012203 | 3 | 0.201" / 5.1mm | 15 | 25 |
| 5012204 | 4 | 0.220" / 5.6mm | 19 | 32 |
| 5012205 | 5 | 0.236" / 6.0mm | 21 | 36 |
| 5012206 | 6 | 0.248" / 6.3mm | 30 | 41 |
| 5012207 | 7 | 0.256" / 6.5mm | 34 | 45 |
| 5012208 | 8 | 0.280" / 7.1mm | 36 | 54 |
| 5012210 | 10 | 0.315" / 8.0mm | 44 | 69 |
| 5012212 | 12 | 0.331" / 8.4mm | 47 | 74 |
| 5012214 | 14 | 0.350" / 8.9mm | 54 | 103 |
| 5012216 | 16 | 0.370" / 9.4mm | 59 | 107 |
| 5012218 | 18 | 0.390" / 9.9mm | 69 | 115 |
| 5012220 | 20 | 0.421" / 10.7mm | 75 | 128 |
| 5012221 | 21 | 0.429" / 10.9mm | 78 | 133 |
| 5012224 | 24 | 0.457" / 11.6mm | 80 | 154 |
| 5012225 | 25 | 0.469" / 11.9mm | 87 | 162 |
| 5012227 | 27 | 0.480" / 12.2mm | 93 | 173 |
| 5012230 | 30 | 0.496" / 12.6mm | 106 | 195 |
| 5012232 | 32 | 0.508" / 12.9mm | 109 | 205 |
| 5012236 | 36 | 0.535" / 13.6mm | 119 | 221 |
| 5012240 | 40 | 0.543" / 13.8mm | 133 | 224 |
| 5012242 | 42 | 0.567" / 14.4mm | 136 | 261 |
| 5012244 | 44 | 0.594" / 15.1mm | 146 | 278 |
| 5012248 | 48 | 0.610" / 15.5mm | 152 | 282 |
| 5012250 | 50 | 0.626" / 15.9mm | 160 | 292 |
| 5012252 | 52 | 0.638" / 16.2mm | 165 | 302 |
| 5012261 | 61 | 0.673" / 17.1mm | 198 | 349 |
| 5012280 | 80 | 1.008" / 25.6mm | 351 | 389 |
| 5012200 | 100 | 1.122" / 28.5mm | 416 | 465 |
| 20 AWG (16/32) 0,50mm2 | | | | |
| 5012002 | 2 | 0.213" / 5.4mm | 19 | 30 |
| 5012003 | 3 | 0.228" / 5.8mm | 26 | 37 |
| 5012004 | 4 | 0.252" / 6.4mm | 31 | 41 |
| 5012005 | 5 | 0.268" / 6.8mm | 35 | 51 |
| 5012006 | 6 | 0.291" / 7.4mm | 44 | 60 |
| 5012007 | 7 | 0.299" / 7.6mm | 46 | 66 |

Sizes continued on next page.

LiYCY Shielded PVC Data Cable



LiYCY Sizes Continued. (20 AWG and Larger)

| PART NUMBER | CORES | NOMINAL OD | CU LBS/MFT | WT LBS/MFT |
|-------------------------------------|-------|-----------------|------------|------------|
| 20 AWG (16/32) 0,50mm2 Cont. | | | | |
| 5012008 | 8 | 0.327" / 8.3mm | 54 | 78 |
| 5012010 | 10 | 0.370" / 9.4mm | 62 | 91 |
| 5012012 | 12 | 0.382" / 9.7mm | 78 | 105 |
| 5012014 | 14 | 0.409" / 10.4mm | 82 | 127 |
| 5012016 | 16 | 0.437" / 11.1mm | 87 | 138 |
| 5012018 | 18 | 0.457" / 11.6mm | 102 | 151 |
| 5012020 | 20 | 0.496" / 12.6mm | 116 | 184 |
| 5012021 | 21 | 0.509" / 12.9mm | 121 | 197 |
| 5012024 | 24 | 0.539" / 13.7mm | 158 | 226 |
| 5012025 | 25 | 0.547" / 13.9mm | 168 | 235 |
| 5012027 | 27 | 0.555" / 14.1mm | 178 | 250 |
| 5012030 | 30 | 0.575" / 14.6mm | 199 | 266 |
| 5012032 | 32 | 0.591" / 15.0mm | 202 | 289 |
| 5012036 | 36 | 0.618" / 15.7mm | 215 | 298 |
| 5012040 | 40 | 0.650" / 16.5mm | 231 | 315 |
| 5012042 | 42 | 0.693" / 17.6mm | 241 | 330 |
| 5012050 | 50 | 0.724" / 18.4mm | 273 | 382 |
| 5012052 | 52 | 0.736" / 18.7mm | 281 | 398 |
| 5012061 | 61 | 0.764" / 19.4mm | 389 | 436 |
| 5012080 | 80 | 0.906" / 23.0mm | 463 | 526 |
| 5012000 | 100 | 1.020" / 25.9mm | 546 | 664 |
| 18 AWG (24/32) 0,75mm2 | | | | |
| 5011802 | 2 | 0.244" / 6.2mm | 25 | 40 |
| 5011803 | 3 | 0.252" / 6.4mm | 34 | 44 |
| 5011804 | 4 | 0.276" / 7.0mm | 38 | 52 |
| 5011805 | 5 | 0.299" / 7.6mm | 47 | 62 |
| 5011806 | 6 | 0.327" / 8.3mm | 58 | 76 |
| 5011807 | 7 | 0.335" / 8.5mm | 64 | 87 |
| 5011808 | 8 | 0.362" / 9.2mm | 74 | 97 |
| 5011810 | 10 | 0.413" / 10.5mm | 94 | 121 |
| 5011812 | 12 | 0.429" / 10.9mm | 101 | 135 |
| 5011814 | 14 | 0.457" / 11.6mm | 112 | 151 |
| 5011816 | 16 | 0.484" / 12.3mm | 123 | 184 |
| 5011818 | 18 | 0.512" / 13.0mm | 139 | 196 |
| 5011820 | 20 | 0.551" / 14.0mm | 160 | 243 |
| 5011825 | 25 | 0.610" / 15.5mm | 186 | 278 |
| 5011830 | 30 | 0.630" / 16.8mm | 211 | 326 |
| 5011836 | 36 | 0.701" / 17.8mm | 248 | 402 |
| 5011840 | 40 | 0.823" / 20.9mm | 322 | 456 |
| 5011850 | 50 | 0.839" / 21.3mm | 357 | 541 |
| 17 AWG (32/32) 1,00mm2 | | | | |
| 5011702 | 2 | 0.256" / 6.5mm | 31 | 44 |
| 5011703 | 3 | 0.272" / 6.9mm | 38 | 54 |
| 5011704 | 4 | 0.295" / 7.5mm | 46 | 66 |
| 5011705 | 5 | 0.327" / 8.3mm | 60 | 85 |
| 5011707 | 7 | 0.354" / 9.0mm | 74 | 106 |
| 5011710 | 10 | 0.449" / 11.4mm | 94 | 156 |
| 5011712 | 12 | 0.461" / 11.7mm | 113 | 174 |
| 5011718 | 18 | 0.528" / 13.4mm | 180 | 276 |
| 5011725 | 25 | 0.638" / 16.2mm | 241 | 377 |
| 16 AWG (30/30) 1,50mm2 | | | | |
| 5011602 | 2 | 0.295" / 7.5mm | 42 | 59 |
| 5011603 | 3 | 0.315" / 8.0mm | 51 | 67 |
| 5011604 | 4 | 0.343" / 8.7mm | 66 | 85 |
| 5011605 | 5 | 0.378" / 9.6mm | 78 | 107 |
| 5011607 | 7 | 0.421" / 10.7mm | 102 | 140 |
| 5011612 | 12 | 0.539" / 13.7mm | 170 | 227 |
| 5011618 | 18 | 0.642" / 16.3mm | 260 | 337 |
| 5011625 | 25 | 0.783" / 19.9mm | 339 | 524 |

* Additional sizes may be available.