# 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

| | |
|---|---|
| **Conductor** | Stranded Annealed Copper (IEC/EN 60228, Class 5, 0.34 mm²: Class 2) |
| **Insulation** | PVC (EN 50290-2-21) |
| **Core Colors** | DIN 47100 (4 cores colors, white, yellow, brown, green) |
| **Lay-up** | Cores are stranded in layers |
| **1. Screen** | Al-PET Foil |
| **2. 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 |
| **Test Voltage** | 0.14 mm²..25 mm² 1200 V; 0.34 mm²..10 mm² 1500 V; 1.50 mm²..... 2500 V |
| **Conductor Resistance** | 0.14 mm²- ≤138 Ω/km; 0.22 mm²- ≤85 Ω/km; 0.25 mm²- ≤77.8 Ω/km;0.34 mm²- ≤56 Ω/km; 0.50 mm²- ≤39 Ω/km; 0.75 mm²- ≤26 Ω/km; 1.00 mm²- ≤19.5 Ω/km; 1.50 mm²- ≤13.3 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) |
|---|---|---|---|
| 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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