

DATA & SENSOR CABLES

LIYCY Multiconductor signal and control cable overall braid DIN Color code



Marking for LIYCY 03150714:
SAB BRÖCKSKES · D-VIERSEN · LIYCY 7 x 0.14 mm² CE

LIYCY is a shielded, multiconductor signal and control cable recommended for use in European designed computer, data transmission and office equipment, process control and instrumentation, where additional EMI protection is required.

Construction:

| | |
|-------------------------|---|
| Conductor: | bare copper strands with reference to DIN VDE 0812 |
| Insulation: | PVC, YI2 acc. to DIN VDE 0207 part 4 |
| Color code: | with reference to DIN 47100 |
| Stranding: | in layers |
| Wrapping: | PETP foil |
| Screen: | tinned copper braiding |
| Jacket material: | PVC, YM1 acc. to DIN VDE 0207 part 5 |
| Jacket color: | gray |

Outstanding features:

- good EMC characteristic
- flexible
- small outer diameter
- small bending radius

Technical data:

| | |
|---------------------------------------|--|
| Peak operating voltage: | < 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V |
| Testing voltage: | < 24 AWG = 800 V ≥ 24 AWG = 1200 V |
| Min. bending radius | |
| <i>fixed installation:</i> | 5 x O.D. |
| <i>free movement:</i> | 10 x O.D. |
| Capacitance: | see page N/8 |
| Radiation resistance: | 8 x 10 ⁷ cJ/kg |
| Temperature range | |
| <i>static:</i> | -30/+70 °C |
| <i>flexing:</i> | -5/+70 °C |
| Burning characteristics: | flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 |
| Oil resistance: | acc. to internal standard, see page N/27 |
| Chemical resistance: | see page N/9 |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/28 |

| item no. | no. of conductors | nominal outer- inch | nominal outer- mm | cable weight ≈ lbs/mft |
|--|-------------------|------------------------|----------------------|---------------------------|
| ▶ 26 AWG (≈18/38) • 0.14 mm² | | | | |
| 03150214 | 2 | 0.142 | 3.6 | 12 |
| 03150314 | 3 | 0.150 | 3.8 | 14 |
| 03150414 | 4 | 0.157 | 4.0 | 16 |
| 03150514 | 5 | 0.169 | 4.3 | 19 |
| 03150614 | 6 | 0.181 | 4.6 | 22 |
| 03150714 | 7 | 0.181 | 4.6 | 22 |
| 03150814 | 8 | 0.213 | 5.4 | 30 |
| 03151014 | 10 | 0.228 | 5.8 | 32 |
| 03151214 | 12 | 0.244 | 6.2 | 37 |
| 03151414 | 14 | 0.252 | 6.4 | 41 |
| 03151614 | 16 | 0.264 | 6.7 | 46 |
| 03151814 | 18 | 0.276 | 7.0 | 50 |
| 03152014 | 20 | 0.287 | 7.3 | 55 |
| 03152114 | 21 | 0.299 | 7.6 | 58 |
| 03152414 | 24 | 0.315 | 8.0 | 62 |
| 03152514 | 25 | 0.339 | 8.6 | 69 |
| 03152714 | 27 | 0.339 | 8.6 | 71 |
| 03153014 | 30 | 0.346 | 8.8 | 78 |
| 03153214 | 32 | 0.358 | 9.1 | 82 |
| 03153614 | 36 | 0.370 | 9.4 | 89 |
| 03154014 | 40 | 0.394 | 10.0 | 99 |
| 03154414 | 44 | 0.417 | 10.6 | 113 |
| 03154814 | 48 | 0.425 | 10.8 | 119 |
| 03155014 | 50 | 0.433 | 11.0 | 123 |
| 03155214 | 52 | 0.433 | 11.0 | 126 |
| 03155614 | 56 | 0.445 | 11.3 | 136 |
| 03156114 | 61 | 0.457 | 11.6 | 143 |

| item no. | no. of conductors | nominal outer- inch | nominal outer- mm | cable weight ≈ lbs/mft |
|--|-------------------|------------------------|----------------------|---------------------------|
| ▶ 24 AWG (≈14/34) • 0.25 mm² | | | | |
| 03150125 | 1 | 0.106 | 2.7 | 9 |
| 03150225 | 2 | 0.154 | 3.9 | 15 |
| 03150325 | 3 | 0.161 | 4.1 | 17 |
| 03150425 | 4 | 0.173 | 4.4 | 21 |
| 03150525 | 5 | 0.193 | 4.9 | 26 |
| 03150625 | 6 | 0.209 | 5.3 | 30 |
| 03150725 | 7 | 0.209 | 5.3 | 31 |
| 03150825 | 8 | 0.240 | 6.1 | 40 |
| 03150925 | 9 | 0.256 | 6.5 | 45 |
| 03151025 | 10 | 0.260 | 6.6 | 44 |
| 03151225 | 12 | 0.268 | 6.8 | 49 |
| 03151425 | 14 | 0.280 | 7.1 | 54 |
| 03151525 | 15 | 0.291 | 7.4 | 60 |
| 03151625 | 16 | 0.291 | 7.4 | 61 |
| 03151825 | 18 | 0.307 | 7.8 | 69 |
| 03152025 | 20 | 0.335 | 8.5 | 79 |
| 03152125 | 21 | 0.346 | 8.8 | 84 |
| 03152425 | 24 | 0.366 | 9.3 | 89 |
| 03152525 | 25 | 0.374 | 9.5 | 93 |
| 03152725 | 27 | 0.374 | 9.5 | 97 |
| 03153025 | 30 | 0.386 | 9.8 | 106 |
| 03153225 | 32 | 0.398 | 10.1 | 112 |
| 03153625 | 36 | 0.421 | 10.7 | 131 |
| 03154025 | 40 | 0.445 | 11.3 | 146 |
| 03154425 | 44 | 0.465 | 11.8 | 154 |
| 03154825 | 48 | 0.488 | 12.4 | 171 |
| 03155025 | 50 | 0.500 | 12.7 | 176 |
| 03155225 | 52 | 0.500 | 12.7 | 181 |
| 03155625 | 56 | 0.512 | 13.0 | 194 |
| 03156125 | 61 | 0.528 | 13.4 | 206 |

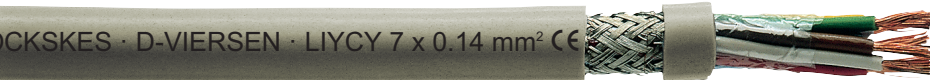
| item no. | no. of conductors | nominal outer- inch | nominal outer- mm | cable weight ≈ lbs/mft |
|---|-------------------|------------------------|----------------------|---------------------------|
| ▶ 22 AWG (≈7/30) • 0.34 mm² | | | | |
| 03150234 | 2 | 0.177 | 4.5 | 19 |
| 03150334 | 3 | 0.193 | 4.9 | 24 |
| 03150434 | 4 | 0.209 | 5.3 | 29 |
| 03150534 | 5 | 0.224 | 5.7 | 35 |
| 03150634 | 6 | 0.252 | 6.4 | 43 |
| 03150734 | 7 | 0.252 | 6.4 | 44 |
| 03150834 | 8 | 0.283 | 7.2 | 54 |
| 03151034 | 10 | 0.307 | 7.8 | 60 |
| 03151234 | 12 | 0.315 | 8.0 | 67 |
| 03151434 | 14 | 0.346 | 8.8 | 81 |
| 03151634 | 16 | 0.362 | 9.2 | 90 |
| 03151834 | 18 | 0.382 | 9.7 | 101 |
| 03152034 | 20 | 0.398 | 10.1 | 110 |
| 03152134 | 21 | 0.421 | 10.7 | 124 |
| 03152434 | 24 | 0.445 | 11.3 | 134 |
| 03152734 | 27 | 0.453 | 11.5 | 145 |
| 03153034 | 30 | 0.469 | 11.9 | 157 |
| 03153234 | 32 | 0.500 | 12.7 | 173 |
| 03153634 | 36 | 0.520 | 13.2 | 192 |
| 03154034 | 40 | 0.551 | 14.0 | 212 |
| 03154234 | 42 | 0.551 | 14.0 | 219 |
| 03154434 | 44 | 0.575 | 14.6 | 224 |
| 03154834 | 48 | 0.583 | 14.8 | 239 |
| 03155034 | 50 | 0.622 | 15.8 | 270 |
| 03155234 | 52 | 0.622 | 15.8 | 277 |
| 03155634 | 56 | 0.638 | 16.2 | 294 |
| 03156134 | 61 | 0.657 | 16.7 | 312 |

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| Insulation: | PVC, YI2 acc. to DIN VDE 0207 part 4 |
| Color code: | with reference to DIN 47100 |
| Stranding: | in layers |
| Wrapping: | PETP foil |
| Screen: | tinned copper braiding |
| Jacket material: | PVC, YM1 acc. to DIN VDE 0207 part 5 |
| Jacket color: | gray |

Outstanding features:

- good EMC characteristic
- flexible
- small outer diameter
- small bending radius

Technical data:

| | |
|---------------------------------------|--|
| Peak operating voltage: | < 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V |
| Testing voltage: | < 24 AWG = 800 V ≥ 24 AWG = 1200 V |
| Min. bending radius | |
| <i>fixed installation:</i> | 5 x O.D. |
| <i>free movement:</i> | 10 x O.D. |
| Capacitance: | see page N/8 |
| Radiation resistance: | 8 x 10 ⁷ cJ/kg |
| Temperature range | |
| <i>static:</i> | -30/+70 °C |
| <i>flexing:</i> | -5/+70 °C |
| Burning characteristics: | flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 |
| Oil resistance: | acc. to internal standard, see page N/27 |
| Chemical resistance: | see page N/9 |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/28 |

| item no. | no. of conductors | nominal outer-ø inch | mm | cable weight ≈ lbs/mft |
|---|-------------------|-------------------------|------|---------------------------|
| ▶ 20 AWG (≈ 16/32) • 0.50 mm² | | | | |
| 03150150 | 1 | 0.126 | 3.2 | 13 |
| 03150250 | 2 | 0.197 | 5.0 | 24 |
| 03150350 | 3 | 0.205 | 5.2 | 28 |
| 03150450 | 4 | 0.220 | 5.6 | 34 |
| 03150550 | 5 | 0.248 | 6.3 | 43 |
| 03150650 | 6 | 0.268 | 6.8 | 50 |
| 03150750 | 7 | 0.268 | 6.8 | 52 |
| 03150850 | 8 | 0.307 | 7.8 | 67 |
| 03151050 | 10 | 0.346 | 8.8 | 77 |
| 03151250 | 12 | 0.354 | 9.0 | 86 |
| 03151450 | 14 | 0.370 | 9.4 | 96 |
| 03151650 | 16 | 0.390 | 9.9 | 109 |
| 03151850 | 18 | 0.417 | 10.6 | 128 |
| 03152050 | 20 | 0.437 | 11.1 | 140 |
| 03152150 | 21 | 0.457 | 11.6 | 151 |
| 03152450 | 24 | 0.496 | 12.6 | 167 |
| 03152550 | 25 | 0.504 | 12.8 | 172 |
| 03152750 | 27 | 0.504 | 12.8 | 181 |
| 03153050 | 30 | 0.520 | 13.2 | 197 |
| 03153250 | 32 | 0.539 | 13.7 | 209 |
| 03153650 | 36 | 0.559 | 14.2 | 231 |
| 03154050 | 40 | 0.622 | 15.8 | 280 |
| 03154250 | 42 | 0.622 | 15.8 | 288 |
| 03155050 | 50 | 0.669 | 17.0 | 327 |
| 03155250 | 52 | 0.669 | 17.0 | 336 |
| 03156150 | 61 | 0.709 | 18.0 | 380 |

| item no. | no. of conductors | nominal outer-ø inch | mm | cable weight ≈ lbs/mft |
|---|-------------------|-------------------------|------|---------------------------|
| ▶ 19 AWG (≈ 23/32) • 0.75 mm² | | | | |
| 03150175 | 1 | 0.138 | 3.5 | 15 |
| 03150275 | 2 | 0.220 | 5.6 | 30 |
| 03150375 | 3 | 0.240 | 6.1 | 38 |
| 03150475 | 4 | 0.260 | 6.6 | 46 |
| 03150575 | 5 | 0.280 | 7.1 | 56 |
| 03150675 | 6 | 0.303 | 7.7 | 67 |
| 03150775 | 7 | 0.303 | 7.7 | 69 |
| 03150875 | 8 | 0.362 | 9.2 | 91 |
| 03151075 | 10 | 0.394 | 10.0 | 101 |
| 03151275 | 12 | 0.413 | 10.5 | 123 |
| 03151475 | 14 | 0.433 | 11.0 | 136 |
| 03151675 | 16 | 0.453 | 11.5 | 155 |
| 03151875 | 18 | 0.488 | 12.4 | 177 |
| 03152175 | 21 | 0.535 | 13.6 | 206 |
| 03152475 | 24 | 0.567 | 14.4 | 224 |
| 03152775 | 27 | 0.579 | 14.7 | 244 |
| 03153075 | 30 | 0.622 | 15.8 | 288 |
| 03153275 | 32 | 0.642 | 16.3 | 304 |
| 03153675 | 36 | 0.665 | 16.9 | 333 |

| item no. | no. of conductors | nominal outer-ø inch | mm | cable weight ≈ lbs/mft |
|--|-------------------|-------------------------|-----|---------------------------|
| ▶ 18 AWG (≈ 30/32) • 1.00 mm² | | | | |
| 03150180 | 1 | 0.142 | 3.6 | 17 |
| 03150280 | 2 | 0.228 | 5.8 | 34 |
| 03150380 | 3 | 0.248 | 6.3 | 43 |
| 03150480 | 4 | 0.268 | 6.8 | 53 |
| 03150580 | 5 | 0.291 | 7.4 | 65 |
| 03150680 | 6 | 0.315 | 8.0 | 76 |
| 03150780 | 7 | 0.315 | 8.0 | 81 |
| ▶ 16 AWG (≈ 27-29/30) • 1.50 mm² | | | | |
| 03150185 | 1 | 0.150 | 3.8 | 21 |
| 03150285 | 2 | 0.256 | 6.5 | 46 |
| 03150385 | 3 | 0.268 | 6.8 | 53 |
| 03150485 | 4 | 0.291 | 7.4 | 66 |
| 03150585 | 5 | 0.339 | 8.6 | 88 |
| 03150685 | 6 | 0.366 | 9.3 | 104 |
| 03150785 | 7 | 0.366 | 9.3 | 110 |

Other dimensions and colors are possible on request.