



UNITRONIC® LiYY

Data transmission cable with colour code acc. to DIN 47100



Info

- The classic for multi-functional use

Benefits

- Space-saving installation due to small cable diameters
- Multifunctional application possibilities
- Depending on the quantity, the outer sheath can also be produced in other colours to match your application needs

Application range

- UNITRONIC® LiYY is also used as a control and signal cable in electronics of computer systems, electronic control equipment, office machines, balances, etc.
- Dry or damp rooms
- Occasional flexing

Product features

- Despite the large number of cores, LiYY data cables have small outer diameters
- Flame-retardant according IEC 60332-1-2

Norm references / Approvals

- Based on VDE 0812

Product Make-up

- Fine-wire/multi-wire (0.34 mm²) strand made of bare copper wires
- Core insulation made of PVC
- Outer sheath made of PVC
Outer sheath colour: pebble grey (RAL 7032)

Technical data

Classification
ETIM 5.0 Class-ID: EC000830
ETIM 5.0 Class-Description: Data cable

Core identification code
DIN 47100 without colour repetition, refer to Appendix T9

Mutual capacitance
Approx. 120 nF/km

Peak operating voltage
(not for power applications)
at 0.14 mm²: 350 V
at ≥ 0.25 mm²: 500 V

Inductivity
approx. 0.65 mH/km

Conductor stranding
Stranded, fine-wire
0.34 mm²: 7-wire

Minimum bending radius
Occasional flexing: 10 x outer diameter
Fixed installation: 4 x outer diameter

Test voltage
At 0.14 mm²: 1200 V

Temperature range
Occasional flexing: -5°C to +70°C
Fixed installation: -40°C to +80°C

| Article number | Number of cores and mm ² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|------------------------|---|---------------------|----------------------|----------------|
| UNITRONIC® LiYY | | | | |
| 0028202 | 2 x 0.14 | 3.2 | 2.7 | 13.2 |
| 0028203 | 3 x 0.14 | 3.4 | 4.05 | 16 |
| 0028204 | 4 x 0.14 | 3.6 | 5.4 | 18.9 |
| 0028205 | 5 x 0.14 | 3.9 | 6.72 | 22.2 |
| 0028207 | 7 x 0.14 | 4.2 | 9.45 | 28.4 |
| 0028208 | 8 x 0.14 | 4.9 | 10.2 | 35.2 |
| 0028210 | 10 x 0.14 | 5.2 | 13.5 | 41.2 |
| 0028212 | 12 x 0.14 | 5.6 | 16.2 | 48.4 |
| 0028214 | 14 x 0.14 | 5.8 | 18.9 | 52.9 |
| 0028216 | 16 x 0.14 | 6.1 | 21.6 | 59.1 |
| 0028220 | 20 x 0.14 | 7 | 27 | 70.8 |
| 0028225 | 25 x 0.14 | 7.8 | 33.6 | 87.2 |
| 0028236 | 36 x 0.14 | 8.6 | 48.6 | 126.8 |
| 0028237 | 37 x 0.14 | 8.9 | 49.7 | 118 |
| 0028240 | 40 x 0.14 | 9.3 | 54 | 139.1 |
| 0028250 | 50 x 0.14 | 10.4 | 67.5 | 170.9 |
| 0028256 | 56 x 0.14 | 10.7 | 78.4 | 187 |
| 0028302 | 2 x 0.25 | 3.8 | 4.8 | 18 |
| 0028303 | 3 x 0.25 | 4 | 7.2 | 22 |
| 0028304 | 4 x 0.25 | 4.3 | 9.6 | 26.2 |
| 0028305 | 5 x 0.25 | 4.7 | 12 | 31 |
| 0028306 | 6 x 0.25 | 5.1 | 14.4 | 39 |
| 0028307 | 7 x 0.25 | 5.1 | 16.8 | 42 |
| 0028308 | 8 x 0.25 | 6.2 | 19.2 | 49.2 |
| 0028310 | 10 x 0.25 | 6.8 | 24 | 58 |
| 0028312 | 12 x 0.25 | 7 | 28.8 | 67 |
| 0028314 | 14 x 0.25 | 7.3 | 33.6 | 75.3 |
| 0028316 | 16 x 0.25 | 7.7 | 38.4 | 84.3 |
| 0028318 | 18 x 0.25 | 8.1 | 43.2 | 93 |
| 0028320 | 20 x 0.25 | 8.6 | 48 | 102 |
| 0028325 | 25 x 0.25 | 9.6 | 60 | 134 |
| 0028330 | 30 x 0.25 | 10.3 | 72 | 155 |
| 0028332 | 32 x 0.25 | 10.7 | 76.8 | 164 |
| 0028336 | 36 x 0.25 | 11.1 | 86.4 | 182.2 |
| 0028337 | 37 x 0.25 | 11.4 | 88.8 | 185 |
| 0028340 | 40 x 0.25 | 12 | 96.1 | 200 |
| 0028350 | 50 x 0.25 | 12.9 | 120 | 257.1 |
| 0028402 | 2 x 0.34 | 4.2 | 6.6 | 25 |
| 0028403 | 3 x 0.34 | 4.4 | 9.9 | 31 |
| 0028404 | 4 x 0.34 | 4.8 | 13.1 | 43.2 |

| Article number | Number of cores and mm ² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|----------------|---|---------------------|----------------------|----------------|
| 0028405 | 5 x 0.34 | 5.5 | 16.5 | 53.8 |
| 0028406 | 6 x 0.34 | 5.9 | 19.6 | 55 |
| 0028407 | 7 x 0.34 | 5.9 | 22.8 | 62 |
| 0028408 | 8 x 0.34 | 7.1 | 26.1 | 73.1 |
| 0028410 | 10 x 0.34 | 7.6 | 32.6 | 82 |
| 0028412 | 12 x 0.34 | 7.8 | 39.1 | 102 |
| 0028414 | 14 x 0.34 | 8.2 | 45.7 | 109 |
| 0028416 | 16 x 0.34 | 8.7 | 52 | 127 |
| 0028420 | 20 x 0.34 | 9.6 | 65.2 | 159.3 |
| 0028421 | 21 x 0.34 | 10.4 | 68.6 | 167 |
| 0028425 | 25 x 0.34 | 11.2 | 81.6 | 190 |
| 0028430 | 30 x 0.34 | 11.6 | 98 | 226 |
| 0028436 | 36 x 0.34 | 12.5 | 118 | 284 |
| 0028440 | 40 x 0.34 | 13.5 | 131 | 317 |
| 0028450 | 50 x 0.34 | 15 | 163 | 407 |
| 0028502 | 2 x 0.50 | 4.7 | 9.6 | 40 |
| 0028503 | 3 x 0.50 | 5 | 14.4 | 47 |
| 0028504 | 4 x 0.50 | 5.6 | 19.2 | 56 |
| 0028505 | 5 x 0.50 | 6.1 | 24 | 65 |
| 0028507 | 7 x 0.50 | 6.9 | 33.6 | 82 |
| 0028508 | 8 x 0.50 | 8 | 38.4 | 90 |
| 0028510 | 10 x 0.50 | 8.6 | 48 | 117 |
| 0028512 | 12 x 0.50 | 8.9 | 58 | 133 |
| 0028516 | 16 x 0.50 | 10.2 | 77 | 170 |
| 0028520 | 20 x 0.50 | 11.4 | 96 | 214 |
| 0028525 | 25 x 0.50 | 12.7 | 120 | 265 |
| 0028530 | 30 x 0.50 | 13.2 | 144 | 304 |
| 0028540 | 40 x 0.50 | 15.8 | 192 | 392 |
| 0028602 | 2 x 0.75 | 5.1 | 14.4 | 48 |
| 0028603 | 3 x 0.75 | 5.6 | 21.6 | 57 |
| 0028604 | 4 x 0.75 | 6.1 | 28.8 | 69 |
| 0028605 | 5 x 0.75 | 6.9 | 36 | 78 |
| 0028607 | 7 x 0.75 | 7.5 | 50 | 112 |
| 0028608 | 8 x 0.75 | 8.7 | 58 | 126 |
| 0028610 | 10 x 0.75 | 9.4 | 72 | 149 |
| 0028612 | 12 x 0.75 | 10.1 | 86 | 176 |
| 0028616 | 16 x 0.75 | 11.2 | 115 | 218 |
| 0028620 | 20 x 0.75 | 12.4 | 144 | 274 |
| 0028625 | 25 x 0.75 | 14 | 180 | 285 |
| 0028702 | 2 x 1.00 | 5.6 | 19.2 | 55 |
| 0028703 | 3 x 1.00 | 5.9 | 29 | 70 |

| Article number | Number of cores and mm ² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|----------------|---|---------------------|----------------------|----------------|
| 0028704 | 4 x 1.00 | 6.4 | 38.4 | 79 |
| 0028705 | 5 x 1.00 | 7.3 | 48 | 98 |
| 0028802 | 2 x 1.50 | 6.2 | 29 | 74 |

| Article number | Number of cores and mm ² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|----------------|---|---------------------|----------------------|----------------|
| 0028803 | 3 x 1.50 | 6.8 | 43 | 89 |
| 0028804 | 4 x 1.50 | 7.4 | 58 | 105 |

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
 Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.
 Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
 Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum
 Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).
 Photographs are not to scale and do not represent detailed images of the respective products.

Similar products

- UNITRONIC® LiYY (TP) refer to page 281
- UNITRONIC® LiYY A refer to page 300

Accessories

- SKINTOP® ST-M refer to page 712
- STAR STRIP stripping tool refer to page 1000
- SENSOR STRIP stripping tool refer to page 1003



UNITRONIC® LiYCY

Screened data transmission cable with colour code acc. to DIN 47100



Benefits

- Overall braid minimises electrical interference
- Multifunctional application possibilities

Application range

- Screened cables with small dimensions are suitable for use in computer systems, instrumentation technology, office equipment, balances.
- Dry or damp rooms

Product features

- Flame-retardant according IEC 60332-1-2

Norm references / Approvals

- Based on VDE 0812

Product Make-up

- Fine-wire/multi-wire (0.34 mm²) strand made of bare copper wires
- Core insulation made of PVC
- Tinned-copper braiding
- Outer sheath made of PVC
Outer sheath colour: pebble grey (RAL 7032)

Technical data

| | | | |
|--|---|--|--|
| | Classification ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable | | Inductivity approx. 0.65 mH/km |
| | Core identification code DIN 47100 without colour repetition, refer to Appendix T9 | | Conductor stranding Stranded, fine-wire 0.34 mm ² : 7-wire |
| | Mutual capacitance C/C: approx. 120 nF/km C/S: approx. 160 nF/km | | Minimum bending radius Occasional flexing: 15 x outer diameter Fixed installation: 6 x outer diameter |
| | Peak operating voltage (not for power applications) at 0.14 mm ² : 350 V at ≥ 0.25 mm ² : 500 V | | Test voltage At 0.14 mm ² : 1200 V |
| | | | Temperature range Occasional flexing: -5°C to +70°C Fixed installation: -40°C to +80°C |

| Article number | Number of cores and mm ² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|-------------------------|---|---------------------|----------------------|----------------|
| UNITRONIC® LiYCY | | | | |
| 0034302 | 2 x 0.14 | 3.9 | 12 | 20 |
| 0034303 | 3 x 0.14 | 4.1 | 13 | 28 |
| 0034304 | 4 x 0.14 | 4.3 | 14.3 | 33 |
| 0034305 | 5 x 0.14 | 4.6 | 15.5 | 38 |
| 0034306 | 6 x 0.14 | 4.9 | 18.2 | 38 |
| 0034307 | 7 x 0.14 | 4.9 | 19 | 49 |
| 0034308 | 8 x 0.14 | 5.8 | 21.2 | 56 |
| 0034310 | 10 x 0.14 | 6.1 | 28.5 | 66 |
| 0034312 | 12 x 0.14 | 6.3 | 30.4 | 78 |
| 0034314 | 14 x 0.14 | 6.7 | 32 | 80 |
| 0034315 | 15 x 0.14 | 6.9 | 37.8 | 86 |
| 0034316 | 16 x 0.14 | 7 | 43 | 90 |
| 0034318 | 18 x 0.14 | 7.3 | 48.8 | 104 |
| 0034320 | 20 x 0.14 | 7.7 | 53.9 | 116 |
| 0034321 | 21 x 0.14 | 7.9 | 55.5 | 121 |
| 0034324 | 24 x 0.14 | 8.4 | 61 | 132 |
| 0034325 | 25 x 0.14 | 8.5 | 63 | 149 |
| 0034328 | 28 x 0.14 | 8.5 | 66.1 | 153 |
| 0034330 | 30 x 0.14 | 8.7 | 69 | 158 |
| 0034336 | 36 x 0.14 | 9.3 | 83 | 183 |
| 0034340 | 40 x 0.14 | 10.4 | 87.5 | 210 |
| 0034344 | 44 x 0.14 | 10.7 | 110.5 | 225 |
| 0034350 | 50 x 0.14 | 11.1 | 122.5 | 253 |
| 0034402 | 2 x 0.25 | 4.5 | 16 | 32 |
| 0034403 | 3 x 0.25 | 4.7 | 21 | 37 |
| 0034404 | 4 x 0.25 | 5 | 24 | 41.3 |
| 0034405 | 5 x 0.25 | 5.6 | 29 | 51.2 |