



UNITRONIC® LiYY

Data transmission cable with colour code acc. to DIN 47100



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)



Info

- The classic for multi-functional use

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

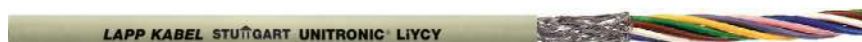
Accessories

- 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



Core identification code

DIN 47100 without colour repetition, refer to Appendix T9



Mutual capacitance

C/C: approx. 120 nF/km

C/S: approx. 160 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: 15 x outer diameter
Fixed installation: 6 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® 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 |

| Article number | Number of cores and mm ² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|----------------|---|---------------------|----------------------|----------------|
| 0034406 | 6 x 0.25 | 6 | 30 | 58 |
| 0034407 | 7 x 0.25 | 6 | 37 | 65 |
| 0034408 | 8 x 0.25 | 7.1 | 42 | 73 |
| 0034410 | 10 x 0.25 | 7.5 | 46 | 82 |
| 0034412 | 12 x 0.25 | 7.7 | 53 | 98 |
| 0034414 | 14 x 0.25 | 8 | 59 | 99 |
| 0034415 | 15 x 0.25 | 8.3 | 61 | 111 |
| 0034416 | 16 x 0.25 | 8.4 | 64 | 124 |
| 0034418 | 18 x 0.25 | 8.8 | 83 | 143 |
| 0034420 | 20 x 0.25 | 9.3 | 88 | 152.3 |
| 0034421 | 21 x 0.25 | 9.6 | 93 | 161 |
| 0034425 | 25 x 0.25 | 10.7 | 114 | 172 |
| 0034428 | 28 x 0.25 | 10.8 | 126 | 181.1 |
| 0034432 | 32 x 0.25 | 11.4 | 138 | 203 |
| 0034436 | 36 x 0.25 | 11.8 | 148 | 220 |
| 0034440 | 40 x 0.25 | 12.7 | 157 | 248 |
| 0034450 | 50 x 0.25 | 13.8 | 178 | 318 |
| 0034461 | 61 x 0.25 | 15 | 205 | 365.2 |
| 0034502 | 2 x 0.34 | 4.9 | 21 | 37 |
| 0034503 | 3 x 0.34 | 5.1 | 27 | 49 |
| 0034504 | 4 x 0.34 | 5.7 | 28 | 59 |
| 0034505 | 5 x 0.34 | 6.2 | 30 | 66 |
| 0034506 | 6 x 0.34 | 6.8 | 45 | 79 |
| 0034507 | 7 x 0.34 | 6.8 | 48 | 83 |
| 0034508 | 8 x 0.34 | 7.8 | 52 | 94 |
| 0034510 | 10 x 0.34 | 8.3 | 74 | 129.2 |
| 0034512 | 12 x 0.34 | 8.5 | 80 | 142 |
| 0034514 | 14 x 0.34 | 8.9 | 86 | 154 |
| 0034515 | 15 x 0.34 | 9.2 | 90 | 155 |
| 0034516 | 16 x 0.34 | 9.4 | 94 | 160 |
| 0034518 | 18 x 0.34 | 10.2 | 103 | 173 |
| 0034520 | 20 x 0.34 | 10.7 | 112 | 192 |
| 0034521 | 21 x 0.34 | 11.1 | 116 | 199.2 |
| 0034525 | 25 x 0.34 | 11.9 | 135 | 259 |
| 0034528 | 28 x 0.34 | 12 | 153 | 280 |
| 0034530 | 30 x 0.34 | 12.3 | 159 | 291.1 |
| 0034532 | 32 x 0.34 | 13 | 165 | 305 |
| 0034536 | 36 x 0.34 | 13.4 | 179 | 331 |
| 0034540 | 40 x 0.34 | 14.8 | 200 | 365 |
| 0034550 | 50 x 0.34 | 15.9 | 235 | 431 |
| 0034602 | 2 x 0.50 | 5.6 | 29 | 54 |
| 0034603 | 3 x 0.50 | 5.9 | 38 | 67 |
| 0034604 | 4 x 0.50 | 6.3 | 43 | 77 |
| 0034605 | 5 x 0.50 | 7 | 51 | 90 |
| 0034606 | 6 x 0.50 | 7.6 | 59 | 104 |
| 0034607 | 7 x 0.50 | 7.6 | 65 | 112 |
| 0034608 | 8 x 0.50 | 8.7 | 70 | 135 |
| 0034610 | 10 x 0.50 | 9.3 | 88 | 160 |
| 0034612 | 12 x 0.50 | 9.6 | 99 | 177 |
| 0034618 | 18 x 0.50 | 11.8 | 134 | 239 |
| 0034620 | 20 x 0.50 | 12.1 | 149 | 276 |
| 0034625 | 25 x 0.50 | 13.7 | 211 | 352 |
| 0034630 | 30 x 0.50 | 14.5 | 230 | 397 |
| 0034702 | 2 x 0.75 | 6 | 38 | 64 |
| 0034703 | 3 x 0.75 | 6.3 | 49 | 76 |
| 0034704 | 4 x 0.75 | 7 | 58 | 92 |
| 0034705 | 5 x 0.75 | 7.6 | 67 | 109 |
| 0034707 | 7 x 0.75 | 8.2 | 100 | 156 |
| 0034710 | 10 x 0.75 | 10.5 | 130 | 187 |
| 0034712 | 12 x 0.75 | 10.8 | 154 | 218 |
| 0034718 | 18 x 0.75 | 13 | 195 | 327 |
| 0034725 | 25 x 0.75 | 15.3 | 280 | 454 |
| 0034730 | 30 x 0.75 | 15.8 | 312 | 486 |
| 0034802 | 2 x 1.00 | 6.3 | 43 | 72 |
| 0034803 | 3 x 1.00 | 6.8 | 56 | 90 |
| 0034804 | 4 x 1.00 | 7.3 | 68 | 109 |
| 0034805 | 5 x 1.00 | 8 | 79 | 126 |
| 0034807 | 7 x 1.00 | 8.6 | 118 | 171 |
| 0034810 | 10 x 1.00 | 11.1 | 140 | 228 |
| 0034812 | 12 x 1.00 | 11.4 | 168 | 259 |
| 0034818 | 18 x 1.00 | 13.4 | 252 | 389 |
| 0034825 | 25 x 1.00 | 16.2 | 335 | 517 |
| 0034902 | 2 x 1.50 | 7.1 | 58 | 90 |
| 0034903 | 3 x 1.50 | 7.5 | 74 | 115 |
| 0034904 | 4 x 1.50 | 8.1 | 108 | 153 |
| 0034905 | 5 x 1.50 | 8.8 | 129 | 176 |
| 0034907 | 7 x 1.50 | 9.5 | 164 | 220 |
| 0034912 | 12 x 1.50 | 12.7 | 254 | 376 |
| 0034918 | 18 x 1.50 | 15.3 | 350 | 519 |
| 0034925 | 25 x 1.50 | 17.9 | 550 | 901 |

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® LiCY (TP) refer to page 282
- UNITRONIC® PUR CP refer to page 289
- UNITRONIC® LiCY A refer to page 301

Accessories

- SKINTOP® MS-SC refer to page 794
- Multipurpose shears A and B refer to page 998
- UNIVERSAL STRIP stripping tool refer to page 1006



UNITRONIC® LiYY (TP)

Data transmission cable with colour code acc. to DIN 47100 and twisted pairs

Info

- TP = twisted pair

Benefits

- Decoupling of circuits by means of twisted-pair (TP) design (crosstalk effects)

Application range

- Electronic devices tend to leave little room for installing cables, meaning short travel distances and small bending radii are required. This cable ideally meets these requirements.
- Dry or damp rooms

Product features

- Twisted in pairs to reduce decoupling. As a result, additional screening is often not required.
- Flame-retardant according IEC 60332-1-2

Norm references / Approvals

- Based on VDE 0812

Product Make-up

- Fine-wire strand made of bare copper wires
- Core insulation made of PVC
- TP structure
- 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, 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 Fine copper wire strands |
| | 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 pairs and conductor cross section (mm²) | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|-----------------------------|---|---------------------|----------------------|----------------|
| UNITRONIC® LiYY (TP) | | | | |
| 0035101 | 2 x 2 x 0.14 | 4.8 | 5.4 | 25.5 |
| 0035102 | 3 x 2 x 0.14 | 4.9 | 8 | 32 |
| 0035103 | 4 x 2 x 0.14 | 5.5 | 10.7 | 38.5 |
| 0035104 | 5 x 2 x 0.14 | 5.7 | 13.4 | 45.5 |
| 0035105 | 6 x 2 x 0.14 | 6.2 | 16.1 | 51 |
| 0035108 | 10 x 2 x 0.14 | 8 | 26.9 | 77.5 |
| 0035110 | 12 x 2 x 0.14 | 8.2 | 32.3 | 94.5 |
| 0035113 | 16 x 2 x 0.14 | 9.1 | 43 | 110.5 |
| 0035160 | 2 x 2 x 0.25 | 6.1 | 9.6 | 38 |
| 0035161 | 3 x 2 x 0.25 | 6.2 | 14.4 | 48 |
| 0035162 | 4 x 2 x 0.25 | 6.9 | 19.2 | 59 |
| 0035163 | 6 x 2 x 0.25 | 7.8 | 28.8 | 80 |
| 0035164 | 8 x 2 x 0.25 | 9.2 | 38.4 | 98 |
| 0035170 | 2 x 2 x 0.5 | 7.9 | 19.2 | 72 |
| 0035171 | 3 x 2 x 0.5 | 8 | 28.8 | 83 |
| 0035172 | 4 x 2 x 0.5 | 8.7 | 38.4 | 115 |
| 0035174 | 8 x 2 x 0.5 | 12.2 | 76.8 | 206 |
| 0035175 | 10 x 2 x 0.5 | 13.2 | 96 | 247 |

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® LiYCY (TP) refer to page 282
- UNITRONIC® LiYCY (TP) A refer to page 302

Accessories

- SKINTOP® CLICK refer to page 715
- KS 15 cable shears



UNITRONIC® LiYCY (TP)

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



Info

- TP = twisted pair

Benefits

- Decoupling of circuits by means of twisted-pair (TP) design (crosstalk effects)
- Overall braid minimises electrical interference

Application range

- Can be used multifunctional in electronics of computer systems, electronic control equipment, office machines, balances, etc.
- Dry or damp rooms

Product features

- Good protection against capacitive interference from electric fields (e.g. power cable)
- Flame-retardant according IEC 60332-1-2

Norm references / Approvals

- Based on VDE 0812

Product Make-up

- Fine-wire strand made of bare copper wires
- Core insulation made of PVC
- TP structure
- 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



Core identification code

DIN 47100, refer to Appendix T9



Mutual capacitance

C/C: approx. 120 nF/km
C/S: approx. 160 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

Fine copper wire strands



Minimum bending radius

Occasional flexing: 15 x outer diameter
Fixed installation: 6 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 | Dimension and cross section in mm² | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|------------------------------|------------------------------------|---------------------|----------------------|----------------|
| UNITRONIC® LiYCY (TP) | | | | |
| 0035131 | 2 x 2 x 0,14 | 5.3 | 18.5 | 39 |
| 0035141 | 3 x 2 x 0,14 | 5.8 | 23 | 48 |
| 0035132 | 4 x 2 x 0,14 | 6.2 | 26.6 | 54 |
| 0035133 | 6 x 2 x 0,14 | 7.1 | 48.5 | 85 |
| 0035150 | 8 x 2 x 0,14 | 8.2 | 53.7 | 97 |
| 0035134 | 10 x 2 x 0,14 | 8.7 | 59 | 110 |
| 0035135 | 12 x 2 x 0,14 | 8.9 | 66 | 142 |
| 0035136 | 16 x 2 x 0,14 | 10.2 | 79 | 154 |
| 0035142 | 20 x 2 x 0,14 | 11.3 | 97 | 184 |
| 0035137 | 25 x 2 x 0,14 | 12.5 | 113 | 238 |
| 0035800 | 2 x 2 x 0,25 | 6.3 | 28 | 54 |
| 0035801 | 3 x 2 x 0,25 | 7.1 | 39.6 | 68.5 |
| 0035802 | 4 x 2 x 0,25 | 7.6 | 44.9 | 81 |
| 0035803 | 6 x 2 x 0,25 | 8.5 | 69.5 | 115 |
| 0035804 | 8 x 2 x 0,25 | 10.3 | 76.9 | 130 |
| 0035805 | 10 x 2 x 0,25 | 11 | 102 | 158 |
| 0035806 | 12 x 2 x 0,25 | 11.3 | 120 | 190 |
| 0035807 | 16 x 2 x 0,25 | 12.5 | 146.5 | 238 |

| Article number | Dimension and cross section in mm² | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|----------------|------------------------------------|---------------------|----------------------|----------------|
| 0035808 | 25 x 2 x 0,25 | 16.1 | 205 | 344 |
| 0035810 | 2 x 2 x 0,5 | 7.9 | 48.1 | 93 |
| 0035811 | 3 x 2 x 0,5 | 8.7 | 73.7 | 129 |
| 0035812 | 4 x 2 x 0,5 | 9.4 | 82 | 146 |
| 0035813 | 6 x 2 x 0,5 | 11.1 | 110 | 198 |
| 0035814 | 8 x 2 x 0,5 | 13.1 | 139 | 259 |
| 0035816 | 12 x 2 x 0,5 | 14.9 | 198.3 | 354 |
| 0035817 | 16 x 2 x 0,5 | 16.5 | 240 | 459 |
| 0035820 | 2 x 2 x 0,75 | 8.5 | 58 | 106 |
| 0035821 | 3 x 2 x 0,75 | 9.4 | 84 | 140 |
| 0035822 | 4 x 2 x 0,75 | 10.7 | 108 | 179 |
| 0035827 | 5 x 2 x 0,75 | 11.1 | 126 | 215 |
| 0035823 | 6 x 2 x 0,75 | 12.1 | 146 | 246 |
| 0035824 | 8 x 2 x 0,75 | 14.7 | 180 | 305 |
| 0035825 | 12 x 2 x 0,75 | 16.2 | 261 | 456 |
| 0035830 | 2 x 2 x 1 | 9 | 84 | 142 |
| 0035831 | 3 x 2 x 1 | 10.4 | 96 | 173 |
| 0035832 | 4 x 2 x 1 | 11.3 | 121 | 212 |
| 0035836 | 5 x 2 x 1 | 11.8 | 161 | 266 |

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® CY PiDY (TP) refer to page 286
- UNITRONIC® PUR CP (TP) refer to page 290
- UNITRONIC® Li2YCY (TP) fine-wire refer to page 291
- UNITRONIC® LiYCY (TP) A refer to page 302

Accessories

- SKINTOP® MS-SC-M refer to page 732
- Multipurpose shears A and B refer to page 998
- STAR STRIP stripping tool refer to page 1000

**UNITRONIC® EB CY (TP)**

Screened data transmission cable with twisted pairs and blue outer sheath

**Info**

- Hazard protection type -i- is required where there is a risk of explosion

**Benefits**

- Overall braid minimises electrical interference
- Decoupling of circuits by means of twisted-pair (TP) design (crosstalk effects)

Application range

- Reliable data transmission in intrinsically safe circuits
- In EMC-sensitive environments (electromagnetic compatibility)

Product features

- For intrinsically safe circuits (type of protection i - intrinsic safety) according to IEC 60079-14:2013 / EN 60079-14:2014 / VDE 0165-1:2014, section 16.2.2
- Flame-retardant according IEC 60332-1-2

Norm references / Approvals

- Based on VDE 0812

Product Make-up

- Fine-wire strand made of bare copper wires
- Core insulation made of PVC
- TP structure
- Tinned-copper braiding
- Outer sheath made of PVC
- Outer sheath colour: sky blue (RAL 5015)

Technical data

| | |
|--|--|
| | Classification ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable |
| | Core identification code DIN 47100, refer to Appendix T9 |
| | Mutual capacitance C/C approx. 100 nF/km C/S approx. 140 nF/km |
| | Peak operating voltage (not for power applications) 900 V |
| | Inductivity approx. 0.65 mH/km |
| | Conductor stranding Strand, fine-wire in accordance with IEC 60228 Cl. 5 |
| | Minimum bending radius Occasional flexing: 15 x outer diameter Fixed installation: 6 x outer diameter |
| | Test voltage 2500 V |
| | Temperature range Occasional flexing: -5°C to +70°C Fixed installation: -40°C to +80°C |

| Article number | Number of pairs and conductor cross section (mm ²) | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|------------------------------|--|---------------------|----------------------|----------------|
| UNITRONIC® EB CY (TP) | | | | |
| 0012620 | 2 x 2 x 0.75 | 8.7 | 58 | 106 |
| 0012621 | 3 x 2 x 0.75 | 9.6 | 84 | 140 |
| 0012622 | 4 x 2 x 0.75 | 10.9 | 108 | 179 |
| 0012624 | 6 x 2 x 0.75 | 12.3 | 146 | 246 |
| 0012626 | 10 x 2 x 0.75 | 16.1 | 220 | 392 |

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

- JE-LiYCY...BD EB refer to page 315

Accessories

- Multipurpose shears A and B refer to page 998
- SKINTOP® K-M ATEX plus blue refer to page 723



UNITRONIC® LiYCY-CY

Screened data transmission cable with individually screened cores



Benefits

- Overall braid minimises electrical interference
- Individually screened cores minimise crosstalk between cables routed in parallel

Application range

- When a lossless transmission of data has to be guaranteed in fields with strong interference, cables with individually-screened cores and an additional overall screening are used
- Dry or damp rooms

Product features

- Wire-screen can be used as outer conductor
- The cable remains flexible despite multiple screening
- Flame-retardant according IEC 60332-1-2

Norm references / Approvals

- Based on VDE 0812

Product Make-up

- Fine-wire strand made of bare copper wires
- Core insulation made of PVC
- Tinned-copper braiding for each core
- Inner sheath made of PVC over each screened core
- 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



Core identification code

DIN 47100, refer to Appendix T9



Mutual capacitance

Approx. 230 nF/km



Peak operating voltage

(not for power applications) 250 V



Inductivity

Approx. 0.2 mH/km



Conductor stranding

Stranded conductor, fine-wire



Minimum bending radius

Occasional flexing: 15 x outer diameter
Fixed installation: 7.5 x outer diameter



Test voltage

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-CY | | | | |
| 0032302 | 2 x 0.25 | 6.9 | 41.5 | 69 |
| 0032303 | 3 x 0.25 | 7.2 | 53 | 106 |
| 0032304 | 4 x 0.25 | 7.8 | 65 | 130 |
| 0032305 | 5 x 0.25 | 8.5 | 78 | 161 |

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® CY PiDY (TP) refer to page 286

Accessories

- SKINTOP® MS-SC-M refer to page 732
- Multipurpose shears A and B refer to page 998
- UNIVERSAL STRIP stripping tool refer to page 1006
- DATA STRIP stripping tool refer to page 1001



UNITRONIC® LiFYCY (TP)

Screened miniature data transmission cable



Info

- For requirements of microelectronics

Benefits

- Space-saving installation due to small cable diameters
- Decoupling of circuits by means of twisted-pair (TP) design (crosstalk effects)
- Overall braid minimises electrical interference

Application range

- For protection against high-frequency interference, screened, fine-wire cables are used in many devices.
- Wherever screened cables with smallest dimensions are required
- Examples: microelectronics, hearing aids etc.

Product features

- Very small dimensions
- Flame-retardant according IEC 60332-1-2

Product Make-up

- Extra-fine wire strand made of bare copper wires
- Core insulation made of PVC
- TP structure
- 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 |
| | Core identification code DIN 47100, refer to Appendix T9 |
| | Mutual capacitance C/C approx. 80 nF/km C/S approx. 120 nF/km |
| | Peak operating voltage (not for power applications) 150 V |
| | Coupling At 1 kHz: approx. 300 pF/100 m |
| | Inductivity approx. 0.65 mH/km |
| | Conductor stranding Stranded, extra-fine wire, cross-section 0.08 mm ² |
| | Minimum bending radius Occasional flexing: 7.5 x outer diameter Fixed installation: 4 x outer diameter |
| | Test voltage 800 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® LiFYCY (TP) | | | | |
| 0034231 | 4 x 2 x 0.08 | 5.4 | 19.4 | 37 |
| 0034233 | 8 x 2 x 0.08 | 7.1 | 23.7 | 76 |

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.

Accessories

- SKINTOP® MS-SC-M refer to page 732
- EASY STRIP stripping and cutting tool refer to page 1004
- Multipurpose shears A and B refer to page 998
- DATA STRIP stripping tool refer to page 1001



UNITRONIC® CY PiDY (TP)

Screened data transmission cable with copper-wrapped twisted pairs



Info

- PiDY = Pairs with copper wire wrapping and PVC sheath

Benefits

- Decoupling of circuits by means of twisted-pair (TP) design (crosstalk effects)
- Individually screened pairs and the overall braid minimise electrical interference

Application range

- Cable should be used in areas with high levels of electromagnetic interferences
- Data processing, process control systems, machining centres, security systems and electronics
- Suitable for the transmission with varying in frequency and voltage or sensitive signals
- For fixed installation and flexible use
- Dry or damp rooms

Product features

- The cable remains flexible despite multiple screening
- Flame-retardant according IEC 60332-1-2

Norm references / Approvals

- Based on VDE 0812

Product Make-up

- Fine-wire strand made of bare copper wires
- Core insulation made of PVC
- Cores twisted into pairs
- Copper wrapping over pairs
- Inner sheath made of PVC over screened pairs
- 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



Core identification code

DIN 47100, refer to Appendix T9



Mutual capacitance

C/C: approx. 120 nF/km
C/S: approx. 160 nF/km



Peak operating voltage

(not for power applications)
350 V



Inductivity

approx. 0.65 mH/km



Conductor stranding

Stranded conductor, fine-wire



Minimum bending radius

Fixed installation: 6 x outer diameter



Test voltage

1200 V



Loop resistance

< 160 Ohm/km



Characteristic impedance

Approx. 65 Ohm



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® CY PiDY (TP) | | | | |
| 0034250 | 2 x 2 x 0.25 | 9.3 | 59.6 | 112 |
| 0034251 | 3 x 2 x 0.25 | 9.8 | 72.7 | 136 |
| 0034252 | 4 x 2 x 0.25 | 11.1 | 88.2 | 168 |
| 0034253 | 5 x 2 x 0.25 | 11.8 | 103.8 | 201 |
| 0034254 | 6 x 2 x 0.25 | 12.8 | 125.7 | 244 |
| 0034256 | 8 x 2 x 0.25 | 15.4 | 161 | 325 |
| 0034257 | 10 x 2 x 0.25 | 17.1 | 186.8 | 342 |
| 0034258 | 12 x 2 x 0.25 | 18.3 | 239.5 | 416 |
| 0034259 | 16 x 2 x 0.25 | 20.3 | 316.7 | 542 |

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 T 17 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® Li2YCY PiMF refer to page 293

Accessories

- SKINTOP® MS-SC-M refer to page 732
- UNIVERSAL STRIP stripping tool refer to page 1006
- STAR STRIP stripping tool refer to page 1000



UNITRONIC® ST

Static screened data transmission cable similar to UL AWM 2092



Benefits

- Aluminium-laminated plastic foil static screen with tin-plated drain wire minimises the interference of high frequency, electromagnetic fields

Application range

- Especially designed for the transmission of the smallest measurement and control signals at minimal space requirements
- Internal wiring of electronic equipment
- For fixed and limited flexible installation
- For use in dry, damp and wet rooms

Product features

- Protection against interferences at medium and high frequencies by aluminium-laminated plastic foil, combination of flexibility and good screening (normal requirements)
- Flame-retardant according IEC 60332-1-2

Norm references / Approvals

- Based on UL AWM Style 2092 / 2093

Product Make-up

- 7-wire tinned stranded copper conductor
- Core insulation made of polyethylene (PE)
- Plastic-laminated aluminium foil with tinned copper drain wire
- Outer sheath made of PVC, Colour of the outer sheath: Similar to Silver-grey/ RAL 7001

Technical data

| | |
|--|--|
| | Classification ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable |
| | Core identification code 2 cores: black, transparent 3 cores: black, red, transparent |
| | Mutual capacitance C/C approx. 90 nF/km C/S approx. 160 nF/km |
| | Peak operating voltage (not for power applications) 500 V |
| | Inductivity approx. 0.65 mH/km |
| | Minimum bending radius Occasional flexing: 10 x outer diameter Fixed installation: 6 x outer diameter |
| | Test voltage 1500 V |
| | Characteristic impedance Approx. 95 Ohm |
| | Temperature range Occasional flexing: -5°C to +70°C Fixed installation: -40°C to +80°C |

| Article number | Number of conductors and AWG size | Conductor cross-section (mm²) | Core insulation material | Outer sheath material | Outer diameter (mm) | Copper index (kg/km) |
|----------------------|-----------------------------------|-------------------------------|--------------------------|-----------------------|---------------------|----------------------|
| UNITRONIC® ST | | | | | | |
| 0033000 | 2 x AWG 20/7 | 0.52 | PE | PVC | 5.2 | 17.2 |
| 0033001 | 3 x AWG 20/7 | 0.52 | PE | PVC | 5.3 | 23 |

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.

Accessories

- UNIVERSAL STRIP stripping tool refer to page 1006
- DATA STRIP stripping tool refer to page 1001

**UNITRONIC® LiYD11Y**

Data transmission cable with copper wrapping and PUR outer sheath

LAPP KABEL STUTTGART UNITRONIC® LiYD11Y

Benefits

- Increased durability under harsh conditions thanks to robust PUR outer sheath
- Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media

Application range

- Intended for use in industrial environments, where cables should have excellent mechanical and chemical resistance.
- Screened cables with small dimensions are suitable for use in computer systems, instrumentation technology, office equipment, balances.
- Can be used in dry or damp rooms
- Outdoor use is possible within the indicated operating temperature range

Product features

- PUR outer sheath, tear and notch-resistant, resistant to mineral oils and abrasion
- Low-adhesive surface
- Good UV-resistance
- Flame retardant according to IEC 60332-2-2
- Spiral versions with similar properties are also available: "UNITRONIC® SPIRAL"

Norm references / Approvals

- Based on VDE 0812

Product Make-up

- Extra-fine wire strand made of bare copper wires
- Core insulation made of PVC
- Wrapped with bare copper wires
- Outer sheath made of PUR
Outer sheath colour: black (RAL 9005)

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**

C/C approx. 140 nF/km
C/S approx. 150 nF/km

**Peak operating voltage**

(not for power applications) 250 V

**Inductivity**

approx. 0.65 mH/km

**Conductor stranding**

Stranded, extra-fine wire

**Minimum bending radius**

Occasional flexing: 10 x outer diameter
Fixed installation: 6 x outer diameter

**Test voltage**

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® LiYD11Y | | | | |
| 0033202 | 2 x 0.14 | 4.1 | 9.6 | 20 |
| 0033203 | 3 x 0.14 | 4.3 | 11 | 25 |
| 0033204 | 4 x 0.14 | 4.5 | 12 | 27 |
| 0033205 | 5 x 0.14 | 4.8 | 14.4 | 33 |
| 0033206 | 6 x 0.14 | 5.5 | 17.6 | 38 |
| 0033207 | 7 x 0.14 | 5.9 | 21.5 | 41 |
| 0033212 | 12 x 0.14 | 7.2 | 33.2 | 62 |
| 0033218 | 18 x 0.14 | 8 | 44.2 | 83 |
| 0033302 | 2 x 0.25 | 4.7 | 11.8 | 25 |
| 0033303 | 3 x 0.25 | 5.3 | 15.6 | 31 |
| 0033304 | 4 x 0.25 | 5.6 | 18.2 | 36 |
| 0033306 | 6 x 0.25 | 6.8 | 26.1 | 49 |
| 0033312 | 12 x 0.25 | 8.4 | 48.1 | 81 |

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® SPIRAL refer to page 247

Accessories

- Multipurpose shears A and B refer to page 998
- UNIVERSAL STRIP stripping tool refer to page 1006
- DATA STRIP stripping tool refer to page 1001



UNITRONIC® PUR CP

Screened data transmission cable with PUR outer sheath for harsh conditions



Benefits

- Data transmission cable with PUR sheath for increased mechanical stress, wear- and tear-resistant
- Increased durability under harsh conditions thanks to robust PUR outer sheath
- Overall braid minimises electrical interference

Application range

- Further development of the UNITRONIC® range for harsher ambient conditions where robust and screened cables in small dimensions are required.

Product features

- Low-adhesive surface
- PUR outer sheath is resistant to most oils and hydraulic fluids
- Special notch and tear-resistance
- Good UV-resistance
- 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 PUR
- 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, refer to Appendix T9 |
| | Mutual capacitance C/C: approx. 120 nF/km C/S: approx. 160 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: 15 x outer diameter Fixed installation: 6 x outer diameter |
| | Test voltage 0.14 mm²: 1200 V ≥ 0.25 mm²: 1500 V |
| | Temperature range Occasional flexing: -5°C to +70°C Fixed installation: -40°C to +80°C |

| Article number | Number of cores and mm² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|--------------------------|---------------------------------------|---------------------|----------------------|----------------|
| UNITRONIC® PUR CP | | | | |
| 0032801 | 3 x 0.25 | 4.7 | 21 | 40 |
| 0032802 | 4 x 0.25 | 5 | 24 | 44 |
| 0032803 | 5 x 0.25 | 5.6 | 29 | 55 |
| 0032804 | 7 x 0.25 | 6 | 37 | 68 |
| 0032805 | 10 x 0.25 | 7.5 | 46 | 85 |
| 0032806 | 12 x 0.25 | 7.7 | 59 | 91 |
| 0032812 | 4 x 0.34 | 5.7 | 28 | 63 |
| 0032813 | 5 x 0.34 | 6.2 | 30 | 69 |
| 0032821 | 3 x 0.50 | 5.9 | 38 | 70 |
| 0032822 | 4 x 0.50 | 6.3 | 43 | 80 |
| 0032824 | 7 x 0.50 | 7.6 | 65 | 115 |
| 0032830 | 2 x 0.75 | 6 | 38 | 67 |
| 0032836 | 12 x 0.75 | 10.8 | 154 | 225 |

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® PUR CP (TP) refer to page 290
- UNITRONIC® FD CP plus refer to page 308
- UNITRONIC® FD CP (TP) plus refer to page 309

Accessories

- SKINTOP® MS-SC-M refer to page 732
- SMART STRIP stripping tool



UNITRONIC® PUR CP (TP)

Screened data transmission cable with PUR outer sheath and twisted pairs for harsh conditions



Info

- TP = twisted pair

Benefits

- Data transmission cable with PUR sheath for increased mechanical stress, wear- and tear-resistant
- Increased durability under harsh conditions thanks to robust PUR outer sheath
- Overall braid minimises electrical interference
- Decoupling of circuits by means of twisted-pair (TP) design (crosstalk effects)

Application range

- For harsh environmental conditions where robust and screened cables with small dimensions are necessary

Product features

- Low-adhesive surface
- PUR outer sheath is resistant to most oils and hydraulic fluids
- Special notch and tear-resistance
- Good UV-resistance
- Flame-retardant according IEC 60332-1-2

Norm references / Approvals

- Based on VDE 0812

Product Make-up

- Fine-wire strand made of bare copper wires
- Core insulation made of PVC
- TP structure
- Tinned-copper braiding
- Outer sheath made of PUR
- 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, refer to Appendix T9



Mutual capacitance

C/C: approx. 120 nF/km
C/S: approx. 160 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

Fine copper wire strands



Minimum bending radius

Occasional flexing: 15 x outer diameter
Fixed installation: 6 x outer diameter



Test voltage

0.14 mm²: 1200 V
≥ 0.25 mm²: 1500 V



Temperature range

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

| Article number | Number of pairs and conductor cross section (mm²) | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|-------------------------------|---|---------------------|----------------------|----------------|
| UNITRONIC® PUR CP (TP) | | | | |
| 0032850 | 2 x 2 x 0.25 | 6.3 | 28 | 54 |
| 0032851 | 3 x 2 x 0.25 | 7.1 | 40 | 66 |
| 0032852 | 4 x 2 x 0.25 | 7.6 | 45 | 81 |
| 0032854 | 6 x 2 x 0.25 | 8.5 | 70 | 115 |
| 0032860 | 2 x 2 x 0.5 | 8.6 | 48 | 93 |
| 0032861 | 3 x 2 x 0.5 | 8.7 | 74 | 129 |
| 0032862 | 4 x 2 x 0.5 | 9.4 | 82 | 146 |
| 0032864 | 6 x 2 x 0.5 | 11.1 | 110 | 198 |

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® FD CP (TP) plus refer to page 309

Accessories

- SKINTOP® MS-SC-M refer to page 732
- SMART STRIP stripping tool