Data transmission cable with colour code acc. to DIN 47100
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




RoHS

## Info
The classic for multi-functional use

## 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 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)

## Norm references / Approvals
Based on VDE 0812

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

## Remark
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.



PN 0486/01_03.10 ©2012 Lapp Group - Technical changes reserved
Photographs are not to scale and do not represent detailed images of the respective products.

## Technical Data

| | |
|---|---|
| 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)<br>at 0.14 mm²: 350 V<br>at ≥ 0.25 mm²: 500 V |
| Classification: | ETIM 5.0 Class-ID: EC000104<br>ETIM 5.0 Class-Description: Control cable |
| Inductivity: | approx. 0.65 mH/km |
| Conductor stranding: | Stranded, fine-wire<br>0.34 mm²: 7-wire |
| Minimum bending radius: | Occasional flexing: 10 x outer diameter<br>Fixed installation: 4 x outer diameter |
| Test voltage: | At 0.14 mm²: 1200 V<br>≥ 0.25 mm²: 1500 V |
| Temperature range: | Occasional flexing: -5°C to +70°C<br>Fixed installation: -40°C to +80°C |



PN 0486/01_03.10 ©2012 Lapp Group - Technical changes reserved
Photographs are not to scale and do not represent detailed images of the respective products.

| Part number | Number of cores and mm² 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 | 6.75 | 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 | 7.0 | 27.0 | 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 | 54.0 | 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 | 4.0 | 7.2 | 22 |
| 0028304 | 4 x 0,25 | 4.3 | 9.6 | 26.2 |
| 0028305 | 5 x 0,25 | 4.7 | 12.0 | 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 | 24.0 | 58 |
| 0028312 | 12 x 0,25 | 7.0 | 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 | 48.0 | 102 |
| 0028325 | 25 x 0,25 | 9.6 | 60.0 | 134 |
| 0028330 | 30 x 0,25 | 10.3 | 72.0 | 155 |
| 0028332 | 32 x 0,25 | 10.7 | 76.8 | 164 |
| | | | | |



PN 0486/01_03.10
©2012 Lapp Group - Technical changes reserved
Photographs are not to scale and do not represent detailed images of the respective products.

| Part number | Number of cores and mm² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|---|---|---|---|---|
| 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 | 12.0 | 96.1 | 200 |
| 0028350 | 50 x 0,25 | 12.9 | 120.0 | 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 |
| 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 | 52.0 | 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 | 98.0 | 226 |
| 0028436 | 36 x 0,34 | 12.5 | 118.0 | 284 |
| 0028440 | 40 x 0,34 | 13.5 | 131.0 | 317 |
| 0028450 | 50 x 0,34 | 15.0 | 163.0 | 407 |
| 0028502 | 2 x 0,5 | 4.7 | 9.6 | 40 |
| 0028503 | 3 x 0,5 | 5.0 | 14.4 | 47 |
| 0028504 | 4 x 0,5 | 5.6 | 19.2 | 56 |
| 0028505 | 5 x 0,5 | 6.1 | 24.0 | 65 |
| 0028507 | 7 x 0,5 | 6.9 | 33.6 | 82 |
| 0028508 | 8 x 0,5 | 8.0 | 38.4 | 90 |
| 0028510 | 10 x 0,5 | 8.6 | 48.0 | 117 |
| 0028512 | 12 x 0,5 | 8.9 | 58.0 | 133 |
| 0028516 | 16 x 0,5 | 10.2 | 77.0 | 170 |
| 0028520 | 20 x 0,5 | 11.4 | 96.0 | 214 |
| 0028525 | 25 x 0,5 | 12.7 | 120.0 | 265 |
| 0028530 | 30 x 0,5 | 13.2 | 144.0 | 304 |
| | | | | |



PN 0486/01_03.10

©2012 Lapp Group - Technical changes reserved

Photographs are not to scale and do not represent detailed images of the respective products.

| Part number | Number of cores and mm² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|---|---|---|---|---|
| 0028540 | 40 x 0,5 | 15.8 | 192.0 | 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 | 36.0 | 78 |
| 0028607 | 7 x 0,75 | 7.5 | 50.0 | 112 |
| 0028608 | 8 x 0,75 | 8.7 | 58.0 | 126 |
| 0028610 | 10 x 0,75 | 9.4 | 72.0 | 149 |
| 0028612 | 12 x 0,75 | 10.1 | 86.0 | 176 |
| 0028616 | 16 x 0,75 | 11.2 | 115.0 | 218 |
| 0028620 | 20 x 0,75 | 12.4 | 144.0 | 274 |
| 0028625 | 25 x 0,75 | 14.0 | 180.0 | 285 |
| 0028702 | 2 x 1 | 5.6 | 19.2 | 55 |
| 0028703 | 3 x 1 | 5.9 | 29.0 | 70 |
| 0028704 | 4 x 1 | 6.4 | 38.4 | 79 |
| 0028705 | 5 x 1 | 7.3 | 48.0 | 98 |
| 0028802 | 2 x 1,5 | 6.2 | 29.0 | 74 |
| 0028803 | 3 x 1,5 | 6.8 | 43.0 | 89 |
| 0028804 | 4 x 1,5 | 7.4 | 58.0 | 105 |



PN 0486/01_03.10 ©2012 Lapp Group - Technical changes reserved
Photographs are not to scale and do not represent detailed images of the respective products.