# UNITRONIC® Li2YCYv (TP)

Screened data transmission cable mit PE core insulation, reinforced outer sheath and twisted pairs

UNITRONIC® Li2YCYv (TP): Low-capacitance screened PVC data cable, DIN 47100 coded Twisted PE pairs, Reinforced black jacket/ Outdoor laying, RS422/ RS485 wiring

## Info
Cables for RS485/RS422


Interference signals

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

## Application range
Particularly suitable for wiring data systems with transmission rates up to 10 Megabits per second, and is qualified for the RS422 and RS485 interfaces.
For fixed and limited flexible installation
Can be used in dry or damp rooms
Signal-, control- and measuring cable,for transmission of low, sensitive signals and high bit rates
**UNITRONIC®**
**Li2YCYv (TP)** with its reinforced, nominal/ minimum average wall thickness of at least 1.8 mm of the black outer sheath (Yv) is designed for indoor and outdoor use as well as for applications where a reinforced outer sheath may turn out to be advantageous

## Product features
Flame-retardant according IEC 60332-1-2

## Norm references / Approvals
Based on VDE 0812

Last Update (15.05.2025)

Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

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## Product Make-up

7-wire bare stranded copper conductor
Core insulation made of polyethylene (PE)
TP structure
Tinned-copper braiding
Wall thickness of the outer sheath is increased ("Yv")
Outer sheath colour: black (RAL 9005)

## Technical Data

| | |
|---|---|
| Classification ETIM 5: | ETIM 5.0 Class-ID: EC000104<br>ETIM 5.0 Class-Description: Control cable |
| Classification ETIM 6: | ETIM 6.0 Class-ID: EC000104<br>ETIM 6.0 Class-Description: Control cable |
| Core identification code: | DIN 47100, refer to Appendix T9 |
| Mutual capacitance: | At 800 Hz: max. 60 nF/km |
| Inductivity: | approx. 0.65 mH/km |
| Conductor stranding: | Stranded conductor, based on VDE 0881, 7-wire |
| Minimum bending radius: | Occasional flexing: 15 x outer diameter<br>Fixed installation: 6 x outer diameter |
| Short-range crosstalk attenuation: | Up to 1 MHz min. 50 dB<br>Up to 10 MHz min. 40 dB |
| Test voltage: | Core/core: 2000 V<br>Core/screen: 1000 V |
| Characteristic impedance: | 100 ± 15 Ohm (> 1 MHz) |
| Temperature range: | Occasional flexing: -5 °C to +70 °C<br>Fixed installation: -40 °C to +80 °C |

## Note

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 and graphics are not to scale and do not represent detailed images of the respective products.
Prices are net prices without VAT and surcharges. Sale to business customers only.

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| Article number | Number of pairs and mm² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|---|---|---|---|---|
| UNITRONIC® Li2YCYv (TP), strengthened outer sheath "Yv", and black for outdoor installation/ technical UV resistance, 7-wire | | | | |
| 0031350 | 2 x 2 x 0.22 | 8.1 | 24.2 | 79 |
| 0031351 | 3 x 2 x 0.22 | 8.4 | 28.6 | 93 |
| 0031352 | 4 x 2 x 0.22 | 8.9 | 34.2 | 100 |
| 0031353 | 8 x 2 x 0.22 | 10.7 | 70 | 156 |
| 0031354 | 10 x 2 x 0.22 | 12 | 76 | 185 |
| 0031365 | 1 x 2 x 0.34 | 7.4 | 20 | 69 |
| 0031355 | 2 x 2 x 0.34 | 9.3 | 34.1 | 102 |
| 0031356 | 3 x 2 x 0.34 | 10 | 43 | 117 |
| 0031357 | 4 x 2 x 0.34 | 10.3 | 52.8 | 130 |
| 0031358 | 8 x 2 x 0.34 | 12.6 | 85.8 | 206 |
| 0031366 | 1 x 2 x 0.5 | 7.9 | 29 | 79 |
| 0031360 | 2 x 2 x 0.5 | 10.1 | 37 | 120 |
| 0031361 | 3 x 2 x 0.5 | 10.9 | 55 | 142 |
| 0031362 | 4 x 2 x 0.5 | 11.2 | 60 | 160 |
| 0031363 | 8 x 2 x 0.5 | 13.9 | 113.3 | 251 |
| 0031364 | 10 x 2 x 0.5 | 16 | 148 | 303 |

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