

## UNITRONIC® FD CY

Screened highly flexible data transmission cable with PVC outer sheath for power chain use

UNITRONIC® FD CY: Low-frequency PVC data cable, highly flexible/ extra-finely wired, drag/ energy chain, constant flexing/ bending, screened, flame retardant



Power chain



Interference signals

### Benefits

- Well-proven and reliable
- Optimized cable construction for power chain use
- Cost-effective solution
- Overall braid minimises electrical interference

### Application range

- Automated production processes require data transmission cables that offer high flexibility and durability, as well as excellent screening
- Suitable for use in measuring, control and regulating circuits
- Assembly lines, production lines, in all kinds of machines

### Product features

- Low-adhesive surface
- Flame-retardant according IEC 60332-1-2
- Designed for 2 up to 8 million bending/unbending cycles in power chain applications

### Norm references / Approvals

- Based on VDE 0812
- For travel distances up to 10 m
- For use in power chains: Please comply with assembly guideline Appendix T3

Last Update (12.12.2022)  
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Product Management [www.lappkabel.de](http://www.lappkabel.de)  
You can find the current technical data in the corresponding data sheet.  
PN 0456 / 02\_03.16

## UNITRONIC® FD CY

### Product Make-up

Extra-fine wire strand made of bare copper wires  
Core insulation made of PVC  
Non-woven wrapping  
Tinned-copper braiding  
Outer sheath made of PVC  
Outer sheath colour: grey (RAL 7001)

### 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:       | C/C approx. 110 nF/km<br>C/S: approx. 110 nF/km                          |
| Inductivity:              | approx. 0.65 mH/km                                                       |
| Conductor stranding:      | Stranded, extra-fine wire                                                |
| Minimum bending radius:   | Flexing: 7.5 x outer diameter<br>Fixed installation: 4 x Outer diameter  |
| Test voltage:             | 1500 V                                                                   |
| Temperature range:        | 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](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil  $\leq$  30 kg or  $\leq$  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.

## UNITRONIC® FD CY

| Article number   | Number of cores and mm <sup>2</sup> per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|------------------|---------------------------------------------------|---------------------|----------------------|----------------|
| UNITRONIC® FD CY |                                                   |                     |                      |                |
| 0027411          | 3 x 0.14                                          | 4.5                 | 14.1                 | 37             |
| 0027412          | 4 x 0.14                                          | 4.8                 | 15.5                 | 42             |
| 0027413          | 5 x 0.14                                          | 5.1                 | 18.3                 | 47             |
| 0027414          | 7 x 0.14                                          | 5.7                 | 27.6                 | 55             |
| 0027416          | 10 x 0.14                                         | 6.7                 | 39.3                 | 63             |
| 0027418          | 14 x 0.14                                         | 6.8                 | 45.3                 | 96             |
| 0027420          | 18 x 0.14                                         | 7.4                 | 54.1                 | 105            |
| 0027422          | 25 x 0.14                                         | 8.9                 | 68.4                 | 163            |
| 0027425          | 2 x 0.25                                          | 4.9                 | 14.9                 | 39             |
| 0027426          | 3 x 0.25                                          | 5.1                 | 18.8                 | 46             |
| 0027427          | 4 x 0.25                                          | 5.5                 | 21.3                 | 53             |
| 0027428          | 5 x 0.25                                          | 5.9                 | 31                   | 71             |
| 0027429          | 7 x 0.25                                          | 6.7                 | 39.6                 | 75             |
| 0027431          | 10 x 0.25                                         | 8.2                 | 53.9                 | 100            |
| 0027434          | 14 x 0.25                                         | 8.3                 | 64.2                 | 120            |
| 0027436          | 18 x 0.25                                         | 9.1                 | 78.4                 | 167            |
| 0027438          | 25 x 0.25                                         | 11                  | 101                  | 221            |
| 0027440          | 2 x 0.34                                          | 5.3                 | 16.1                 | 47             |
| 0027441          | 3 x 0.34                                          | 5.6                 | 28.7                 | 55             |
| 0027442          | 4 x 0.34                                          | 6                   | 35.7                 | 76             |
| 0027443          | 5 x 0.34                                          | 6.5                 | 39.1                 | 80             |
| 0027444          | 7 x 0.34                                          | 7.4                 | 52.7                 | 104            |
| 0027446          | 10 x 0.34                                         | 9.1                 | 67.4                 | 115            |
| 0027448          | 14 x 0.34                                         | 9.2                 | 85.3                 | 132            |
| 0027450          | 18 x 0.34                                         | 10.3                | 99.7                 | 225            |
| 0027452          | 25 x 0.34                                         | 12.5                | 155                  | 327            |

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