

## 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



Interference signals



Power chain

### Benefits

- Well-proven and reliable
- Optimised cable construction for power chain use
- Cost-effective version
- Overall shield minimises electrical interference

### Application range

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

### Product features

- Low-adhesive surface
- Flame-retardant according to IEC 60332-1-2
- Designed for 2 to 8 million alternating bending cycles in the power chain

### Norm references / approvals

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

Last Update (23.02.2017)

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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

### Design

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

### Technical Data

Classification:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Core identification code:	DIN 47100, refer to appendix T9
Operating capacitance:	C/C approx. 110 nF/km C/S: approx. 110 nF/km
Peak operating voltage:	(not for power applications) 350 V
Inductance:	approx. 0.65 mH/km
Conductor design:	Stranded, extra-fine wire
Minimum bending radius:	Flexing: 7.5 x outer diameter Fixed installation: 4 x outer diameter
Test voltage:	1500 V
Temperature range:	Flexing: -5°C to +70°C 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; see catalogue appendix T17 for the application and definition of "Metal price basis" and "Metal index"

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging: Ring  $\leq$  30 kg or  $\leq$  250 m, otherwise drum

Please specify the preferred packaging (e.g. 1 x 500 m drum or 5 x 100 m rings)

Photographs 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 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	70
0027416	10 x 0.14	6.7	39.3	90
0027418	14 x 0.14	6.8	45.3	106
0027420	18 x 0.14	7.4	54.1	123
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	114
0027434	14 x 0.25	8.3	64.2	141
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	63
0027442	4 x 0.34	6	35.7	81
0027443	5 x 0.34	6.5	39.1	89
0027444	7 x 0.34	7.4	52.7	117
0027446	10 x 0.34	9.1	67.4	155
0027448	14 x 0.34	9.2	85.3	194
0027450	18 x 0.34	10.3	99.7	225
0027452	25 x 0.34	12.5	155	327

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