

## UNITRONIC® FD Li2YCY (TP) A BE

Shielded, low-capacitance, twisted-pair PE/PVC data cable for power chain/cable carrier, UL AWM for USA+CAN

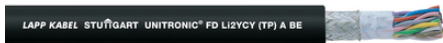
UNITRONIC® FD Li2YCY (TP) A B: Shielded, low-capacitance, twisted-pair PVC signal/data cable for power chain/cable carrier, UL AWM for USA and Canada

### Info

Better priced than UNITRONIC® FD CP (TP) plus

Low capacitance, AWM by UL for USA+CAN

UNITRONIC® FD Li2YCY (TP) A BE: DIN 47100, refer to Appendix T9



Mechanical and plant engineering



Suitable for outdoor use



Flame-retardant



Oil-resistant



Power chain



Interference signals



UV-resistant

### Benefits

Improved transmission characteristics thanks to low-capacitance core insulation and twisted pairs

Cable specification optimized for use in power chain/cable carrier in the USA, on the basis of NFPA 79, Section 12.9.2

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You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

## UNITRONIC® FD Li2YCY (TP) A BE

### Application range

Suitable for use in measuring, control and regulating circuits

Linear robots, automated handling equipment

Use in drag chain/cable carrier/power track - in case of horizontal installation travel distances up to 50 m

For use in chain/carrier: Please respect the assembly guidelines listed in Appendix T3

### Product features

Low capacitance

EMC optimized thanks to overall copper braid shielding

Flexibility for use inside power chain/cable carrier

Oil-resistant according to DIN EN 50290-2-22 (TM54)

Flame-retardant acc. to IEC 60332-1-2,

UL VW-1, Cable Flame Test, CSA FT 1

### Norm references / Approvals

Based on VDE 0812

UL AWM Style 2570 80 °C 1000V (external interconnection) for USA (UL File No.: E63634) and in line with NFPA 79, Section 12.9.2

AWM I/II A/B 80 °C 1000V acc. to CSA C22.2 No. 210-15 and certified by UL (cRU) for Canada

EU conformity and mark with regard to the European RoHS Directive

### Product Make-up

Flexible conductor made of bare copper strands

Low-capacitance PE core insulation

Non-woven wrapping

Tinned-copper braiding

Outer sheath made of PVC

Outer sheath colour: black (similar to RAL 9005)

### Technical Data

Classification ETIM 5:

ETIM 5.0 Class-ID: EC000830

ETIM 5.0 Class-Description: Data cable

Core identification code:

**UNITRONIC®**

**FD Li2YCY (TP) A BE:**

DIN 47100, refer to Appendix T9

Mutual capacitance:

Up to 0.5 mm<sup>2</sup>: 60 nF/km

Up to 1.0 mm<sup>2</sup>: 70 nF/km

Inductivity:

approx. 0.65 mH/km

Conductor stranding:

Fine wire

From 0.5 mm<sup>2</sup>: Finest wire/Conductor class 6 acc. to IEC 60228

Minimum bending radius:

Flexing: 7.5 x outer diameter

Fixed installation: 4 x outer diameter

Loop resistance:

Ohmic (DC) and loop/bidirectional @ 20 °C

0.14 mm<sup>2</sup> (26 AWG): 276.0 Ω/km;

0.25 mm<sup>2</sup> (24 AWG): 158.0 Ω/km;

0.34 mm<sup>2</sup> (22 AWG): 110.8 Ω/km;

0.5 mm<sup>2</sup> (21 AWG): 78.0 Ω/km;

0.75 mm<sup>2</sup> (19 AWG): 52.0 Ω/km;

1 mm<sup>2</sup> (18 AWG): 39.0 Ω/km

Temperature range:

Flexing:

VDE: -5 °C to 70 °C

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## UNITRONIC® FD Li2YCY (TP) A BE

UL AWM: -5 °C to 80 °C

Stationary use:

VDE: -40 °C to 70 °C

UL AWM: -5 °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 LI2YCY (TP) A BE**

Article number	Dimension and cross section in mm <sup>2</sup>	Outer diameter [mm]	Copper index [kg/km]	Weight [kg/km]
0031377	1 x 2 x 0.14	4.3	11.2	23
0031378	2 x 2 x 0.14	5.9	19.4	42
0031379	3 x 2 x 0.14	6.2	23.4	47
0031380	4 x 2 x 0.14	6.7	27.1	57
0031381	5 x 2 x 0.14	7.3	37.4	68
0031382	6 x 2 x 0.14	7.5	49.4	86
0031383	8 x 2 x 0.14	8.8	54.8	109
0031384	10 x 2 x 0.14	10.1	60.1	120
0031385	12 x 2 x 0.14	9.8	61.6	150
0031386	1 x 2 x 0.25	4.7	14.9	27
0031387	2 x 2 x 0.25	6.6	32	57
0031388	3 x 2 x 0.25	7	38.4	72
0031389	4 x 2 x 0.25	7.6	43.2	85
0031390	5 x 2 x 0.25	8.5	51.5	92
0031391	6 x 2 x 0.25	8.8	71.8	114
0031392	8 x 2 x 0.25	10.3	74.4	145
0031393	10 x 2 x 0.25	11.8	90	182
0031394	14 x 2 x 0.25	12	111.2	213
0031395	25 x 2 x 0.25	16.3	310	310
0031396	1 x 2 x 0.34	5.1	18.1	36
0031397	2 x 2 x 0.34	7.3	41	69
0031398	3 x 2 x 0.34	8	52	93
0031399	4 x 2 x 0.34	8.7	59	106
0031400	5 x 2 x 0.34	9.7	67	136
0031401	6 x 2 x 0.34	10	86.2	165
0031402	8 x 2 x 0.34	11.8	107.5	221
0031403	10 x 2 x 0.34	13.7	131.1	274
0031404	1 x 2 x 0.5	5.5	23	47
0031405	2 x 2 x 0.5	8.3	50	99
0031406	3 x 2 x 0.5	8.8	71.8	120
0031407	4 x 2 x 0.5	9.8	74.4	130
0031408	5 x 2 x 0.5	10.7	84.5	164
0031409	6 x 2 x 0.5	11.3	99.6	182
0031410	8 x 2 x 0.5	13.2	144.3	278

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Article number	Dimension and cross section in mm <sup>2</sup>	Outer diameter [mm]	Copper index [kg/km]	Weight [kg/km]
0031411	10 x 2 x 0.5	15.2	176	325
0031412	14 x 2 x 0.5	15.5	215.4	401
0031413	1 x 2 x 0.75	5.9	35	61
0031414	2 x 2 x 0.75	9	60	104
0031415	3 x 2 x 0.75	9.8	85.7	148
0031416	4 x 2 x 0.75	10.7	93.6	167
0031417	5 x 2 x 0.75	11.9	115	202
0031418	6 x 2 x 0.75	12.3	130.4	233
0031419	8 x 2 x 0.75	14.7	192.2	330
0031420	10 x 2 x 0.75	16.7	258	390
0031421	14 x 2 x 0.75	17	316.6	515
0031422	1 x 2 x 1.0	6.3	42	71
0031423	2 x 2 x 1.0	9.9	73	126
0031424	3 x 2 x 1.0	10.5	93.6	167
0031425	4 x 2 x 1.0	11.8	117.8	213
0031426	5 x 2 x 1.0	13.1	139	247

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