

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

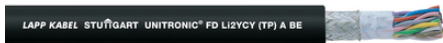
UNITRONIC® FD Li2YCY (TP) A B: Shielded, low-capacitance, twisted-pair PVC signal/data cable for power chain/cable carrier, UL AWM for USA and Canada

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

Last Update (21.12.2023)

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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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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 mm²: 60 nF/km

Up to 1.0 mm²: 70 nF/km

Inductivity:

approx. 0.65 mH/km

Conductor stranding:

Fine wire

From 0.5 mm²: 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 mm² (26 AWG): 276.0 Ω/km;

0.25 mm² (24 AWG): 158.0 Ω/km;

0.34 mm² (22 AWG): 110.8 Ω/km;

0.5 mm² (21 AWG): 78.0 Ω/km;

0.75 mm² (19 AWG): 52.0 Ω/km;

1 mm² (18 AWG): 39.0 Ω/km

Temperature range:

Flexing:

VDE: -5 °C to 70 °C

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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

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 ²	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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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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