

UNITRONIC® FD Li2YCY (TP) A BA

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

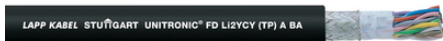
UNITRONIC® FD Li2YCY (TP) A B: Shielded, low-capacitance, twisted-pair PVC signal/data cable for power chain/cable carrier, UL AWM for USA and Canada

Info

Better priced than UNITRONIC® FD CP (TP) plus

Low capacitance, AWM by UL for USA+CAN

UNITRONIC® FD Li2YCY (TP) A BA: North-American Core Identification Colors



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 BA

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 BA:

- Pair 01: Black, Red;
- Pair 02: Black, White;
- Pair 03: Black, Green;
- Pair 04: Black, Blue;
- Pair 05: Black, Yellow;
- Pair 06: Black, Brown;
- Pair 07: Black, Orange;
- Pair 08: Red, White;
- Pair 09: Red, Green;
- Pair 10: Red, Blue;
- Pair 11: Red, Yellow;
- Pair 12: Red, Brown;
- Pair 13: Red, Orange;
- Pair 14: Green, White;
- Pair 15: Green, Blue;
- Pair 16: Green, Yellow;
- Pair 17: Green, Brown;
- Pair 18: Green, Orange;
- Pair 19: White, Blue;

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	<ul style="list-style-type: none"> - Pair 20: White, Yellow; - Pair 21: White, Brown; - Pair 22: White, Orange; - Pair 23: Blue, Yellow; - Pair 24: Blue, Brown; - Pair 25: Blue, Orange; - Exception Single-paired/24 - 22 AWG: Black, White
Mutual capacitance:	Up to 0.5 mm ² : 60 nF/km Up to 1.0 mm ² : 70 nF/km
Inductivity:	approx. 0.65 mH/km
Conductor stranding:	Fine wire From 0.5 mm ² : 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 ² (26 AWG): 276.0 Ω/km; 0.25 mm ² (24 AWG): 158.0 Ω/km; 0.34 mm ² (22 AWG): 110.8 Ω/km; 0.5 mm ² (21 AWG): 78.0 Ω/km; 0.75 mm ² (19 AWG): 52.0 Ω/km; 1 mm ² (18 AWG): 39.0 Ω/km
Temperature range:	Flexing: VDE: -5 °C to 70 °C 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 ≤ 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 mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
0031427	1 x 2 x 0.14	4.3	11.2	23
0031428	2 x 2 x 0.14	5.9	19.4	42
0031429	3 x 2 x 0.14	6.2	23.4	47
0031430	4 x 2 x 0.14	6.7	27.1	57
0031431	5 x 2 x 0.14	7.3	37.4	68
0031432	6 x 2 x 0.14	7.5	49.4	86
0031433	8 x 2 x 0.14	8.8	54.8	109
0031434	10 x 2 x 0.14	10.1	60.1	120
0031435	12 x 2 x 0.14	9.8	61.6	150
0031436	1 x 2 x 0.25	4.7	14.9	27
0031437	2 x 2 x 0.25	6.6	32	57
0031438	3 x 2 x 0.25	7	38.4	72
0031439	4 x 2 x 0.25	7.6	43.2	85
0031440	5 x 2 x 0.25	8.5	51.5	92
0031441	6 x 2 x 0.25	8.8	71.8	114
0031442	8 x 2 x 0.25	10.3	74.4	145
0031443	10 x 2 x 0.25	11.8	90	182
0031444	14 x 2 x 0.25	12	111.2	213
0031446	1 x 2 x 0.34	5.1	18.1	36
0031447	2 x 2 x 0.34	7.3	41	69
0031448	3 x 2 x 0.34	8	52	93
0031449	4 x 2 x 0.34	8.7	59	106
0031450	5 x 2 x 0.34	9.7	67	136
0031451	6 x 2 x 0.34	10	86.2	165
0031452	8 x 2 x 0.34	11.8	107.5	221
0031453	10 x 2 x 0.34	13.7	131.1	274
0031454	1 x 2 x 0.5	5.5	23	47
0031455	2 x 2 x 0.5	8.3	50	99
0031456	3 x 2 x 0.5	8.8	71.8	120
0031457	4 x 2 x 0.5	9.8	74.4	130
0031458	5 x 2 x 0.5	10.7	84.5	164
0031459	6 x 2 x 0.5	11.3	99.6	182
0031460	8 x 2 x 0.5	13.2	144.3	278
0031461	10 x 2 x 0.5	15.2	176	325

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Article number	Number of pairs and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
0031462	14 x 2 x 0.5	15.5	215.4	401
0031463	1 x 2 x 0.75	5.9	35	61
0031464	2 x 2 x 0.75	9	60	104
0031465	3 x 2 x 0.75	9.8	85.7	148
0031466	4 x 2 x 0.75	10.7	93.6	167
0031467	5 x 2 x 0.75	11.9	115	202
0031468	6 x 2 x 0.75	12.3	130.4	233
0031469	8 x 2 x 0.75	14.7	192.2	330
0031470	10 x 2 x 0.75	16.7	258	390
0031471	14 x 2 x 0.75	17	316.6	515
0031472	1 x 2 x 1.0	6.3	42	71
0031473	2 x 2 x 1.0	9.9	73	126
0031474	3 x 2 x 1.0	10.5	93.6	167
0031475	4 x 2 x 1.0	11.8	117.8	213

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