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

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

Mechanical and plant engineering
Suitable for outdoor use
Flame-retardant
Oil-resistant
Power chain
Interference signals
UV-resistant

Last Update (01.09.2020)
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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 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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- 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 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
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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