#### 0031427

## DATA SHEET

valid from: 01.01.2019

**UNITRONIC® FD Li2YCY (TP) A BA** 



### **Application**

UNITRONIC® FD Li2YCY (TP) A BA is a high flexible, screened and twisted pair data cable with an outer sheath of PVC.

The cable with low capacitance is designed especially for use in power chains, automatic manipulators, in permanently moved machine parts.

Decoupling by means of twisted pair cable design and the screen protects against interference.

### Design

Design based on UL AWM Style 11117 and 2570, UL 758, CSA C22.2 No. 210

and according to VDE 0812

Certification UL AWM Style 2570 (File No. E63634), UL 758

RU AWM I/II A/B (File No. E63634) cRU AWM I/II A/B (File No. E63634)

Conductor superfine wire strands of bare copper wires

Insulation special Polyolefin-based compound

Core identification code Pair 1: black, red

Pair 2: black, white
Pair 3: black, green
Pair 4: black, blue
Pair 5: black, yellow
Pair 6: black, brown
Pair 7: black, orange
Pair 8: red, white
Pair 9: 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 20: white, yellow Pair 21: white, brown Pair 22: white, orange Pair 23: blue, yellow Pair 24: blue, brown Pair 25: blue, orange

Pair 16: green, yellow Pair 17: green, brown Pair 18: green, orange Pair 19: white, blue

Exception single-paired, 24-22 AWG:

black, white

Stranding cores twisted to pairs, pairs are stranded in layers,

wrapping with fleece on the outer layer

Screen Braiding with tinned copper wires, wrapping with fleece on the screen

Outer sheath special PVC-based compound

colour: black (similar RAL 9005)

#### Electrical properties at 20°C

Specific volume resistivity  $> 5 G \Omega x km$ 

Mutual capacitance up to 0.5 mm²: approx. 60 nF/km

up to 1 mm $^2$ : approx. 70 nF/km

Inductance approx. 0.65 mH/km

Peak operating voltage VDE: 0.14 mm<sup>2</sup>: 350 V (not for power applications)

≥ 0.25 mm<sup>2</sup>: 500 V (not for power applications)

UL: 1000 V

Test voltage C/C: 1500 V

C/S: 1500 V

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## UNITRONIC® FD Li2YCY (TP) A BA



## Mechanical and thermal properties

Minimum bending radius Flexing: 7.5 x cable Ø

Fixed installation: 4 x cable Ø

Temperature range

VDE: -5°C up to +70°C

UL AWM: - 5°C up to +80°C

Fixed installation:

VDE/UL AWM: - 5°C up to +80°C

Number of cycles 2 mio. cycles Travel distance up to 10 m

Flammability flame retardant acc. to IEC 60332-1-2

UL: VW-1 CSA: FT1

Oil resistance EN 50290-2-22 resp. VDE 0819-102, TM54

General requirements This cable is conform to the EU-Directive 2011/65/EU

(RoHS, Restriction of the use of certain hazardous substances).

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