® LAPP GROUP

Low frequency data transmission cables

Data communication systems

Low capacitance

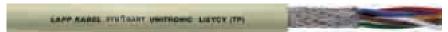
UNITRONIC® Li2YCY (TP)

Screened data transmission cable mit PE core insulation, 7-wire strands and twisted pairs



UNITRONIC® Li2YCY (TP) fine-wired

Screened data transmission cable mit PE core insulation, fine wire strands and twisted pairs



UNITRONIC® Li2YCYv (TP)

Screened data transmission cable mit PÉ core insulation, reinforced outer sheath and twisted pairs



Benefits

- 7-wire stranded conductor (UNITRONIC® Li2YCY (TP) and UNITRONIC® Li2YCYv (TP)) can be used for Maxi TERMI-POINT® wiring
- Overall braid minimises electrical interference
- TP structure minimises crosstalk

Application range

- The UNITRONIC® Li2YCYv (TP) model with reinforced black outer sheath (Yv) is suitable for indoors and outdoors, as well as direct burial in the ground.
- UNITRONIC® Li2YCY (TP) is particularly suitable for wiring data systems with transmission rates up to 10 Megabits per second, and is qualified for the RS422 and RS485 interfaces.
- Cables of this type are intended for limited flexible use, and for fixed installation in dry or damp interiors

Product features

Flame-retardant according to IEC 60332.1.2

Approvals



Design

UNITRONIC® Li2YCY (TP)

- 7-wire tinned stranded copper conductor
- Core insulation made of polyethylene (PE)
- TP structure
- Tinned-copper braiding
- Outer sheath made of PVC Outer sheath colour: pebble grey (RAL 7032)

UNITRONIC® Li2YCY (TP) fine-wired

 Similar to UNITRONIC® Li2YCY (TP), but with fine-wire conductor design

UNITRONIC® Li2YCYv (TP)

- Similar to UNITRONIC® Li2YCY (TP), but with reinforced PVC outer sheath (Yv)
- Outer sheath colour: black (RAL 9005)

■ Technical data



Core identification code

DIN 47100, refer to Appendix T9



Mutual capacitance UNITRONIC® Li2YCY (TP) At 800 Hz: max. 60 nF/km



Peak operating voltage (not for power applications) 250 V



Based on **UNITRONIC® Li2YCY (TP)** VDE 0812



Specific insulation resistance > 5 GOhm x km



Inductivity UNITRONIC® Li2YCY (TP)

approx. 0.65 mH/km



Conductor stranding **UNITRONIC® Li2YCY (TP)**

Stranded conductor, based on VDE 0881,

UNITRONIC® Li2YCY (TP) fine-wired Stranded conductor, fine-wire

UNITRONIC® Li2YCYv (TP)

Stranded conductor, based on VDE 0881, 7-wire

Minimum bending radius

For flexible use: 15 x outer diameter Fixed installation: 6 x outer diameter

Short-range crosstalk attenuation Up to 1 MHz min. 50 dB Up to 10 MHz min. 40 dB

Test voltage UNITRONIC® Li2YCY (TP)

Core/core: 2000 V Core/screen: 1000 V



Temperature range Fixed installation: -30 °C to +80 °C Flexing: -5°C to +70°C



Characteristic impedance

			∠ ∞ 100 Ohm +	2 ∞ 100 Ohm +- 15	
umber	Number of pairs and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	We	

Article number	Number of pairs and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)			
UNITRONIC® LI2YCY (TP)							
0031320	2 x 2 x 0,22	6.5	24.2	59			
0031321	3 x 2 x 0,22	7.1	28.6	66			
0031322	4 x 2 x 0,22	7.3	34.2	78			
0031323	8 x 2 x 0,22	9.1	70.0	125			
0031324	10 x 2 x 0,22	10.4	76.0	143			
0031335	1 x 2 x 0,34	5.8	20.0	44			
0031325	2 x 2 x 0,34	7.7	34.1	79			
0031326	3 x 2 x 0,34	8.9	43.0	89			
0031327	4 x 2 x 0,34	8.7	47.0	101			