

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 PE 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, 7-wire
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 +/- 15

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