LAPP GROUP	DATA SHEET	0031320
	UNITRONIC® Li2YCY (TP)	valid from : 31.07.2002

Application

UNITRONIC® Li2YCY (TP) is a low capacitance data cable, suitable for wiring of data systems, for interfaces of types RS 422, RS 485, in field bus networks with a nominal impedance of 100 to 120 Ohms. By the pair twisting with different length of lay, the electrical circuits are well de coupled and with the screen of a bare copper braid the cable is protected against external electrical influences.

The cable is designed for modern connection techniques such as insulation displacement technology, Termi-Point® technology. UNITRONIC® Li2YCY (TP) is intended for limited flexible use and for static laying in dry and damp interiors.

Design

Conductor	7-wire strands of bare copper wire; 0.22 mm², 0.34 mm² and 0.5 mm²
Insulation	Polyethylene (2Y),
Core diameter	1.2 mm at 0.22 mm²; 1.55 mm at 0.34 mm²; 1.8 mm at 0.5 mm²
Coding	to DIN 47100,
Stranding	cores twisted in pairs, pairs arranged in layers
Wrapping	plastic foil
Screening	braiding of bare copper wires
Sheath	PVC grey, RAL 7032, flame retardant

Marking on the sheath

LAPP KABEL STUTTGART **UNITRONIC® Li2YCY (TP)** ART. 0031320

Technical Data

			Conductor	**0.22 mm²**	**0.34 mm²**	**0.5 mm²**
Loop resistance			max. Ω/km	186	115	78.4
Insulation resistance			min. GΩxkm	5	5	5
Mutual capacitance	core/core		max. nF/km	60	60	60
	core/screen		max. nF/km	160	160	160
Impedance at	f > 1 MHz		Ω	100 ± 15	100 ± 15	100 ± 15
Line attenuation at	100 kHz		nom. dB/100m	0.75	0.53	0.45
	1 MHz		nom. dB/100m	2.1	1.7	1.5
	10 MHz		nom. dB/100m	6.6	5.4	4.7
	20 MHz		nom. dB/100m	9.3	7.6	6.6
Cross-talk at	1 MHz		min. dB	50	50	50
	10 MHz		min. dB	40	40	40
	20 MHz		min. dB	37	37	37
nominal velocity of propagation			nom.	0.66 c		
Transfer impedance at	30 MHz		mΩ/m	250		
Operating voltage (not for power purposes)		peak value	max. V	250		
Test voltage	core/core		$U_{eff.}$ V	2000		
	core/screen		$U_{eff.}$ V	1000		
Minimum bending radius	static			cable diameter x 10		
Temperature range	moved		°C	- 5 to + 70		
	static		°C	- 30 to + 80		
flame propagation	flame retardant to VDE 0482, part 265-2-1 / IEC 60 332-1					