LAPP GROUP	**DATA SHEET**	0034040
	UNITRONIC® Li2YCY PiMF	valid from : 31.07.02

Application

UNITRONIC® Li2YCY **PiMF** (**P**air **i**n **M**etal **F**oil) with individual screening of the pairs is particularly suitable for wiring data systems and controls for the transmission of sensitive signals and high bit rates, for enhanced requirements in respect of near-end cross-talk attenuation, and in conditions of high electrical interference on the line circuits. Therefore for measurements value transmission, field bus systems, and serial 2 wire interfaces.

Cables of this type are 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 (24AWG), 0.34 mm² (22AWG), 0.5 mm² (20AWG)
Insulation	Polyethylene (2Y), ∅ 1.2 mm at 0.22 mm²; ∅ 1.55 mm at 0.34 mm²; ∅ 1.8 mm at 0.5 ^mm²
Coding	acc. to DIN 47100
Pair stranding	cores twisted in pairs
Pair screening	pair screen of polymer clad metal foil with a drain wire, wrapping by plastic foil
Core stranding	screened pairs twisted in layers, wrapping by plastic foil
Screening	screen braiding of bare copper wires
Sheath	PVC grey, RAL 7032, flame retardant

Marking on the sheath:

LAPP KABEL STUTTGART **UNITRONIC® Li2YCY PiMF** ART. 0034040

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	70	70	75
Impedance at	f > 1 MHz	nom. Ω	85	85	85
Line attenuation at	100 kHz	nom. dB/100m	1	0.8	0.7
	1 MHz	nom. dB/100m	3.4	2.9	2.4
	10 MHz	nom. dB/100m	9.5	8.4	7.5
	20 MHz	nom. dB/100m	13	11.9	10.6
Near End cross talk attenuation (NEXT)	≤ 1 MHz	min. dB	80	80	80
	≤ 10 MHz	min. dB	71	71	71
	≤ 20 MHz	min. dB	68	68	68
Nominal velocity of propagation		nom.		0.66 c	
Transfer impedance at	10 MHz	nom. mΩ/m		10	
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 60332-1			