


0034230	DATA SHEET	
valid from: 01.01.2019	UNITRONIC® LiFYCY (TP)	

Application

UNITRONIC® LiFYCY (TP) is a screened miniature data transmission cable with twisted pairs for low frequency applications. The cable is designed for fixed installation and for conditional flexible use. It is used in dry and damp interiors but not appropriate for outside usage. The twisted pairs with short lay lengths provides good decoupling of the conductor circuits. The screen provides protection against electromagnetic interferences.

Design

Design	Design based on standard VDE 0812
Conductor	extra-fine wire strands of bare copper wires
Insulation	PVC compound TI52 according to VDE 0819-101 (EN 50290-2-21)
Core identification code	according to DIN 47100
Stranding	cores twisted to pairs, pairs are stranded in layers, wrapping with foil on the outer layer
Screen	Braiding with tinned copper wires
Outer sheath	PVC compound TM52 acc. to VDE 0819-102 (EN 50290-2-22) colour: grey (similar RAL 7032)

Electrical properties at 20°C

Loop resistance	max. 486 Ω/km
Specific volume resistivity	> 20 G Ω x cm
Mutual capacitance	C/C: approx. 80 nF/km C/S: approx. 120 nF/km (at 800 Hz)
Inductance	approx. 0.65 mH/km
Capacitive coupling	100 m at 1 kHz: approx. 300 pF
Peak operating voltage	150 V (not for power applications)
Test voltage	C/C: 800 V C/S: 500 V

Mechanical and thermal properties

Minimum bending radius	Occasional flexing: 7.5 x cable Ø Fixed installation: 4 x cable Ø
Temperature range	Occasional flexing: - 5 °C up to +70 °C Fixed installation: - 40 °C up to +80 °C
Flammability	flame retardant acc. to IEC 60332-1-2
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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