

Suggested Copy for Lapp Limited in Farnell Catalogue

Unitronic® LiYCY (TP)

(Farnell: Overall screened twisted pair data cables)

Application

UNITRONIC® LIYCY (TP) is a screened, paired, flexible cable for control and data transmissions, for weak- current applications. The fine wired conductor (7-wired for 0.34mm2) and the robust ductile outer sheath gives the cable strength as well as high flexibility. By the pair twisting the electric circuits are well decoupled and with the screen of a tinned copper braiding the cabel is protected against external electrical influences.

The cable is intended for static laying and flexible use in dry and damp interiors. Design and electrical characteristics similar to VDE 0812.

Design

Conductor	fine-wire strands of bare copper wire; 0.14 mm2 to 1.5 mm2 , 7-wired for 0.34 mm2
Insulation	PVC compound YI2 according to V DE 0207 part 4,
Coding	according to DIN 47100
Pair stranding	cores twisted into pairs
Core stranding	pairs twisted in layers, wrapping by plastic foil
Screening	braiding of tinned copper wires, coverage approx. 85%
Sheath	PVC YM2 according to V DE 0207 part 5, flame retardant, grey, RAL 7032

Technical Data

Conductor cross section [mm ²] 0,14 0,25 0,34 0,5 0,75 1,0 1,5	Loop resistance [max.Ω)./km] 148 79,9 57,5 38,9 26 19,5 13,3		apacitance e 800 Hz :/m]	≥*)	50 kHz nom.[Ω] 115 110 108 98 89 83 74		≥1 MHz	
Inductivity Specific insulation Operating Voltage Test voltage	resistance for 0.14 mm ² (not f for \ge 0,25 mm ² (no for 0.14 mm ² for \ge 0,25 mm ²			kcm V			0.65 20 350 500 1200 1500	
Temperature range			static Flexing	°C			-30 to + 80 -5 to + 70	
Minimum bending radius			static flexing				6 x Ø cable 15 x Ø cable	
Flame propagation			flame ret	flame retardant to VDE 0482, part 265-2-1/IEC 60 332-1				

*) valid for 4 pairs and more **) values for f:! 1 MHz are for the orientation, because the cables are only limited suitable for f:! 500 kHz