Suggested Copy for Lapp Limited in Farnell Catalogue

UNITRONIC® LAN STP/S-H PiMF 600 MHz CAT. 7

(Farnell: Unitronic LAN STP/S-H PiMF 600MHz CAT.7)

Application

UNITRONIC® LAN STP/S-H PiMF 600 MHz CAT. 7 is a halogen free twisted pair (TP) CATEGORY 7 high speed data transmission cable, each pair individually screened (STP), conforming to requirement for CLASS F Links (Draft) and exceeds the requirements acc. to EN 50173 as well as ISO/IEC IS 11801 "Generic Cabling for Customer Premises" for CLASS D Links.

The cable is designed for transfer rates up to 622 MBit/s (622 Mbps TPDDI resp. CDDI) is specified up to 600 MHz.

TPDDI TWISTED PAIR DISTRIBUTED DATA INTERFACE CDDI COPPER DISTRIBUTED DATA INTERFACE

Design

Conductor	solid bare copper wire, 0.55 mm {2) (23AWG)
Insulation	Foam-Skin PE
Core stranding	cores twisted to pairs, pairs twisted to cable core
Colour acc. to IEC 708	code pair 1 white and blue pair 2 white and orange pair 3 white and green pair 4 white and brown
Pair screening	pairs individually screened by aluminium laminated plastic foil *(STP/S) metal side outside*
Overal screening	tinned copper braiding (STP/S)
Sheath	halogen free, flame retardant, yellow
Outer diameter	approx. 7.8 mm

Electrical properties at 20°C

DC resistance (loop)		maxΩ/km	160
Insulation resistance		min. GΩ/km	10
Mutual capacitance	f = 800 kHz	nom. nF/km	42
Impedance	f = ≥ 1 MHz	Ω	100 ± 15 %
Nominal velocity of propagation (NVP)		nom. %	77
Signal delay		nom. ns/m	4.3

Delay skew		Max. ns/100m	5,0
Transfer impedance at	1 -100 MHz	≤ mΩ/m	6
Operating voltage (not for power purposes)		(peak value) V	125
Test voltages	core/core	Ueff V	1000
	core/screen	Ueff V	1000

Mechanical and thermal characteristics

Minimum bending radius	during installation	mm	63
	after installation	mm	32
Temperature range	flexing	°C	-0 to 50
	static	°C	-20 to 70
Fire load		kWh/m	0.2