

Suggested Copy for Lapp Limited in Farnell Catalogue

Unitronic® LAN STP/S 1.2GHz CAT.7 4x2x22AWG

(Farnell: Unitronic LAN 1.2GHz Halogen Free)

Application

UNITRONIC® LAN STP/S-H 1,2 GHz is a halogen free twisted pair (TP) CATEGORY 7 high speed data transmission cable, each pair individually screened (STP). The cable exceeds the requirements acc. to prEN 50288-4-1, August 2000 (draft) and exceeds the requirements acc. to EN 50173 as well as ISO/IEC IS 11801. The cable is designed for Gigabit Ethernet 1000 BaseT, ATM 155/622 Mbit/s and other standards, it is specified until 1,2 GHz.

Design

Conductor	solid, bare copper wire 22AWG		
Insulation	cellular polyolefin, core diameter max. 1.6 mm		
Stranding	cores twisted to pairs, 4 pairs twisted to the cable core		
Pair screening	pairs individually screened by aluminium/polyester foil		
Colour coding	pair 1 white and blue	pair 2 white and orange	
	pair 3 white and green	pair 4 white and brown	
Wrapping	plastic foil		
Overall screening	tinned copper braiding		
Sheath	flame retardant LSZH compound, white (RAL 9018)		
Outer diameter	ca. 8, 7 mm		

Electrical properties at 20° C

DC resistance (loop)		max.Ω/km	114
Insulation resistance		min. GΩxkm	5
Mutual capacitance at	800 Hz	nom. nF/km	45
Impedance at	1 -10 MHz	Ω	100± 15
Impedance at	100- 250 MHz	Ω	100± 22
Impedance at	250 -1000 MHz	Ω	100±: 25
Velocity of propagation		nom.	0.78c
Propagation delay at	100 MHz	max. nsec/m	4.3
Delay skew at	100 MHz	max. nsec/m	0.15
Transfer impedance at	10 MHz	max. mΩ/m	10
Operating voltage (not for power purposes)		peak value V	125
Test voltage	core/core	Urms V	1000
	core/screen	Urms V	500

Mechanical and thermal characteristics

Minimum bending radius	mm	80
Permissible temperature range	°C	-20 to + 75
Permissible pulling strength	max. N	250
Pulling force of sheath at 50 mm length	min. 5 N, max. 40 N	
Fire load	KWh	0,22
Flame propagation	flame retardant acc. to VDE 0482, part 265-2-1/IEC 60 332-1	