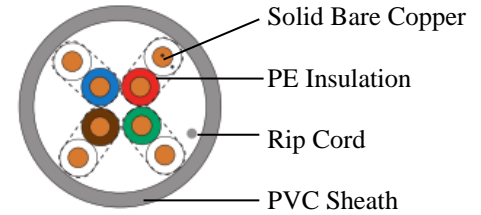


## Part # 999001

### LINNET CATEGORY 5E UTP LAN CABLE



**Manufacturer: LINNET (UK) LIMITED, ENGLAND**

**Origin: MADE IN ENGLAND**

LINNET Category 5E UTP cables have been designed and manufactured in the UK to British and International standards. LINNET UTP Category 5E, 100 ohms Cable exceeds the performance requirement of all Category 5E cable standards.

#### Description

Cat 5E (100MHz), 4 Pair, UTP, 24 AWG bare copper conductors, PE Insulation, PVC Sheath with rip cord

#### Application

LINNET Category 5E UTP cables are suitable for Premise Horizontal cabling and complies with the performance requirements for 1000 Base T/TX Gigabit Ethernet, 100 Base T/TX Fast Ethernet, 10 Base T Ethernet, Token Ring, 100 Mbps TP-PMD, Voice over IP (VoIP), Digital & Analogue video, Analogue services (Broadband and Baseband), ISDN, all Category 5E & Class D applications.

#### Construction

- Conductor: 24 AWG bare annealed copper wire to BS EN 60228.
- Insulation: Conductors are insulated with solid polyethylene to BS EN 50290-2-23.
- Colour code: As per table 1
- Twinning: Two insulated conductors are twisted together to form a pair. All 4 pairs have different lays to minimise Cross Talk.
- Lay-up: 4 pairs are laid up together to form a cable core.
- Sheath: Cable is sheathed with PVC to BS EN 50290-2-22. The nominal diameter of cable is 5 mm. Rip cord is provided for easy stripping.

**Table 1- colour code for insulated conductors**

Pair 1	White-Blue	Blue
Pair 2	White-Orange	Orange
Pair 3	White-Green	Green
Pair 4	White-Brown	Brown



## Cable Properties

Impedance:	100 ohms	
Conductor DC Resistance	<9.38Ω/100m	Resistance Unbalance : <5%
Mutual Capacitance:	<5.6nF/100m	Capacitance Unbalance: <330pF/100m
Propagation Delay	<538ns/100m @ 100 MHz	Delay Skew: <45ns/100m

FREQUENCY (MHz)	INSERTION LOSS (Max.) (dB/100m)	NEXT LOSS (Min.) (dB)	PSNEXT LOSS (Min.) (dB)	ACRF (Min.) (dB)	PSACRF LOSS (Min.) (dB)	RETURN LOSS (Min.) (dB)
1	2.1	65.3	62.3	63.8	60.8	20.0
4	4.1	56.3	53.3	51.8	48.8	23.0
8	5.8	51.8	48.8	45.7	42.7	24.5
10	6.5	50.3	47.3	43.8	40.8	25.0
16	8.2	47.2	44.2	39.7	36.7	25.0
20	9.3	45.8	42.8	37.8	34.8	25.0
25	10.4	44.3	41.3	35.8	32.8	24.3
31.25	11.7	42.9	39.9	33.9	30.9	23.6
62.5	17.0	38.4	35.4	27.9	24.9	21.5
100	22.0	35.3	32.3	23.8	20.8	20.1

Operating temperature:	-20°C to +70°C
Max. Pulling Tension:	108 N
Min. Bend radius:	25 MM

### Standards:

ANSI/TIA-568-C.2 and ISO/IEC 11801

Part Number	Item Description
999001-Grey	4 Pair 24AWG UTP Category 5E Cable- PVC Grey
999001-Blue	4 Pair 24AWG UTP Category 5E Cable- PVC Blue

**Note: The above data sheet is for indicative guidance purpose only. Information on this data sheet is subject to change without notice. E&OE.**

November 15