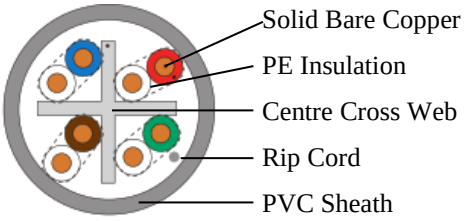
Part # 999401

LINNET CATEGORY 6 UTP LAN CABLE



Manufacturer: LINNET (UK) LIMITED, ENGLAND **Origin: MADE IN ENGLAND**

LINNET Category 6 UTP cables have been designed and manufactured in the UK to British and International standards. LINNET Category 6 UTP, 100 ohms Cable exceeds the performance requirement of all Category 6 cable standards.

Description

Cat 6 (250MHz), 4 Pair, UTP, 23 AWG bare copper conductors, PE Insulation, Centre cross web, PVC Sheath with rip cord

Application

LINNET Category 6 UTP cables are suitable for Premise Horizontal cabling and complies with the performance requirements for, 1000 Base T/TX Gigabit Ethernet, 1.2 Gbps, 622 Mbps ATM, 155 Mbps ATM, 100 Mbps TP-PMD, Voice over IP (VoIP), Digital/Composite video, Digital/Analogue services (Broadband and Baseband) ISDN and all Category 6 & Class E applications.

Construction

Conductor: 23 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.

Centre Cross member:

Centre Cross Web is provided to maintain pair's geometry and to enhance electrical performance.

Lay-up: 4 pairs are laid up with Centre Cross Member to form a cable core.

Sheath: Cable is sheathed with PVC to BS EN 50290-2-22. The nominal diameter of cable is 6 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	<536ns/100m @250 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	2.0	74.3	72.3	67.8	64.8	20.0
4	3.8	65.3	63.3	55.8	52.8	23.0
8	5.3	60.8	58.8	49.7	46.7	24.5
10	6.0	59.3	57.3	47.8	44.8	25.0
16	7.6	56.2	54.2	43.7	40.7	25.0
20	8.5	54.8	52.8	41.8	38.8	25.0
25	9.5	53.3	51.3	39.8	36.8	24.3
31.25	10.7	51.9	49.9	37.9	34.9	23.6
62.5	15.4	47.4	45.4	31.9	28.9	21.5
100	19.8	44.3	42.3	27.8	24.8	20.1
200	29.0	39.8	37.8	21.8	18.8	18.0
250	32.8	38.3	36.3	19.8	16.8	17.3

Operating temperature:	-20^{O}C to +70^{O}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
999401-Grey	**4 Pair 23AWG UTP Category 6 Cable- PVC Grey**
999401-Blue	**4 Pair 23AWG UTP Category 6 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.

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