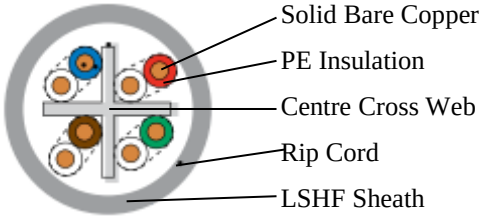
Part # 999611

LINNET CATEGORY 6A UTP LAN CABLE (LSHF)



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

LINNET Category 6A UTP 10 Gigabit cables have been designed and manufactured in the UK to British & International standards. LINNET Category 6A UTP, 100 ohms impedance cable exceeds the performance requirement of all Category 6A cable standards.

Description

Cat 6A (500MHz) 10G cable, 4 Pair, UTP, 23 AWG bare copper conductors, PE Insulation, Centre Cross Web, LSHF Sheath with rip cord

Application

LINNET Category 6A UTP cables are suitable for Premise Horizontal cabling and complies with the performance requirements for 10 Gigabit Ethernet, 10 GBase-T, 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), AES51, RS-422, Noisy environment, PoE, ISDN and all Category 6A & Class E_A applications.

LINNET Category 6A UTP 100 ohms impedance cables are suitable for installation in groups or bundles as the cable construction prevents Alien Crosstalk between adjacent cables.

Construction

Conductor: 23 AWG Solid bare annealed copper Wire to BS EN 60228

Insulation: 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 Web:

A specially designed Centre Cross web is provided to maintain pair's geometry to prevent alien Crosstalk between adjacent cables.

Lay-up: 4 twisted pairs are laid up with specially designed centre cross web.

Sheath: Cable is sheathed with LSHF (**L**ow **S**moke **H**alogen **F**ree) compound to BS EN 50290-2-27. The nominal diameter of cable is 8 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 @ 500MHz	Delay Skew:	<45ns/100m

FREQUENCY (MHz)	INSERTION LOSS (Max.) (dB/100m)	NEXT LOSS (Min.) (dB)	PSNEXT LOSS (Min.) (dB)	PSANEXT LOSS (Min.) (dB)	RETURN LOSS (Min.) (dB)	ACRF (Min.) (dB)
1	2.1	74.3	72.3	67.0	20.0	67.8
4	3.8	65.3	63.3	67.0	23.0	55.8
8	5.3	60.8	58.8	67.0	24.5	49.7
10	5.9	59.3	57.3	67.0	25.0	47.8
16	7.5	56.2	54.2	67.0	25.0	43.7
20	8.4	54.8	52.8	67.0	25.0	41.8
25	9.4	53.3	51.3	67.0	24.3	39.8
31.25	10.5	51.9	49.9	67.0	23.6	37.9
62.5	15.0	47.4	45.4	65.6	21.5	31.9
100	19.1	44.3	42.3	62.5	20.1	27.8
200	27.6	39.8	37.8	58.0	18.0	21.8
250	31.1	38.3	36.3	56.5	17.3	19.8
300	34.3	37.1	35.1	55.3	16.8	18.3
400	40.1	35.3	33.3	53.5	15.9	15.8
500	45.3	33.8	31.8	52.0	15.2	13.8

Operating temperature:	$-20^{O}C$ to $+80^{O}C$
Max.Pulling Tension:	108 N
Min. Bend radius:	40 MM

Standards: ANSI/TIA-568-C.2 and ISO/IEC 11801
ICEA S-90-661
NFPA 70- CM, CMX, CMG, CMR, MP, MPG, MPR

Part Number	Item Description
999611-Grey	**4 Pair Category 6A UTP Cable- LSHF Grey**
999611-Blue	**4 Pair Category 6A UTP Cable- LSHF Blue**
999611-Orange	**4 Pair Category 6A UTP Cable- LSHF Orange**

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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