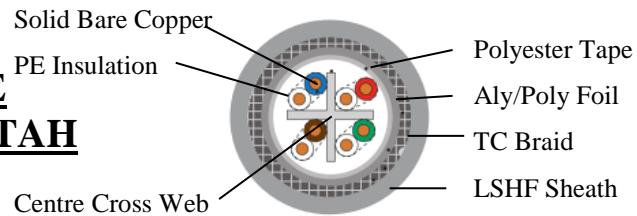


## LINNET CATEGORY 6 SF/UTP LAN CABLE LSHF-LOW SMOKE HALOGEN FREE SHETAH



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

**Origin: MADE IN ENGLAND**

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

### Description

Cat 6 (250MHz), 4 Pair, SF/UTP, 23 AWG bare copper conductors, PE Insulation, Centre Cross Web, Polyester tape, Aly/Poly foil screen, Tinned copper wire braid shield, LSHF Sheath with rip cord

### Application

LINNET Category 6 SF/UTP LSHF 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.

LINNET Category 6 SF/UTP LSHF Cables are used in areas where external or radio frequency interference exists along the cable pathway. The foil screen and Tin copper braid shield surrounding the cable core prevents electromagnetic and radiofrequency interference. This helps to reduce greatly the effects of EMI/RFI from sources like heavy plant, machinery, motors, medical equipments etc. It makes LINNET Category 6 SF/UTP LSHF cable suitable for Hospitals, Factories, industrial environments etc.

Low Smoke Halogen Free cables are suitable to be used in areas where fire can be a hazard to users. This makes LINNET Category 6 SF/UTP LSHF cable an ideal choice for Public Buildings, Stadiums, Airports.

### Construction

Conductor: 23 AWG Solid 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.

Twining: Two insulated conductors are twisted together to form a pair. All 4 pairs have different lays to minimise Cross Talk.

Centre Cross Web: Provided to maintain pair geometry and to optimise NEXT performance.

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

Wrap: The cable core is wrapped with Polyester tape.

Screen: An electrically continuous Laminated Aluminium foil screen is provided over cable core wrap with 100% coverage.

Shield: A tinned copper wire braid is provided for shielding. The braid is in contact with metal side of Laminated Aluminium foil screen. This tinned copper wire braid to be used for screen earth.

Sheath: Cable is sheathed with LSHF compound to BS EN 50290-2-27. The nominal diameter of cable is 7 mm.

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**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°C to + 70°C
Max. Pulling Tension:	110 N
Min. Bend radius:	60 MM

**Standards:**

ANSI/TIA-568-C.2 and ISO/IEC 11801  
 IEC 60332-1  
 IEC 60332-3-22  
 IEC 60754  
 IEC 61034

**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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Although LINNET makes every effort to ensure the accuracy of specifications at the time of this publication, specifications are subject to change without notice. Contact LINNET sales department for up to date information and specification. The information given herein is for guidance purpose only. LINNET does not accept any responsibility or liability whatsoever.

20 Chambers Way, Newton Chambers Road, Thorncleif Park, Chapeltown, Sheffield, South Yorkshire S35 2PH, England  
 T: +44 (0) 114 2202266 F: +44 (0) 114 2202267 E: sales@linnetuk.co.uk W: www.linnetuk.co.uk