eXtreme® CAT 6+ U/UTP 4-pair Solid LAN Cable

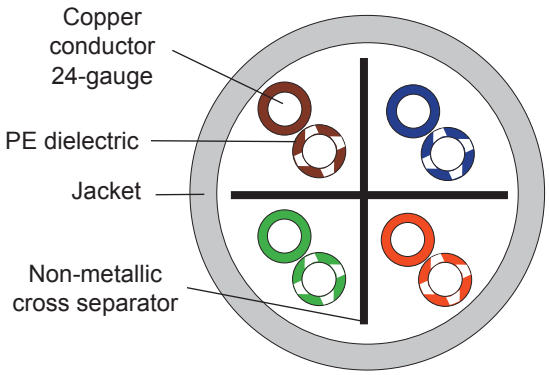
PART NUMBERS

Description	Part No.
eXtreme CAT 6+ U/UTP CM 4-pair Solid LAN Cable	UT46M-M*B
eXtreme CAT 6+ U/UTP CMR 4-pair Solid LAN Cable	UT46R-M*B
eXtreme CAT 6+ U/UTP LSZH 4-pair Solid LAN Cable	UT46Z-M*B

* Color for jacket: (W) White, (S) Grey, (L) Blue
Note: All packaging is 305 meters (1,000') box

APPLICATION

IEEE 802.3: 1000Base-T (Gigabit Ethernet); 100Base-T (Fast Ethernet); 10Base-T



STANDARDS COMPLIANCE

TIA 568-C.2 CAT 6
ISO/IEC 11801 Class E
UL 444
NEMA WC 66
RoHS Compliant
KS C 3342

FIRE RATING

UT46R-M*B: UL 1666

UT46M-M*B: UL1581
UL 444 CM

UT46Z-M*B: IEC 60754
IEC 61034

Construction			
Conductor	Bare copper wire		24 gauge
Insulation	Polyethylene		Ø 0.90 mm
Twisting	4 twisted pairs, 2 single conductors paired Twisted pair color code: 1: Blue+White/Blue 2: Orange+White/Orange 3: Green+White/Green 4: Brown+White/Brown		
Cable lay-up	4 pairs with different pitches		
Outer jacket	UT46R-M*B: CMR	UT46M-M*B:CM	UT46Z-M*B:LSZH
Outer diameter	Ø 6.0 mm ± 0.2 mm (0.236")		

Leviton Network Solutions, a division of Leviton Mfg. Co., Inc.
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LEVITON

TECHNICAL SPECIFICATION	
Mechanical Properties	
Bending Radius	≥ 4xOD (without load)
Temperature range	during operation: -20° C ~ 75° C during installation 0° C ~ 60° C
Electrical Properties (-20 °C ± 5 °C)	
DC resistance	Max. 9.38 Ω/100 m at 20° C
Resistance unbalance	Max. 5% at 20° C
Insulation resistance (500V)	Min. 5000 M Ω/Km at 20° C
Mutual capacitance	Nom. 5.6 nf/100 m at 1kHz
Capacitance unbalance (pair to ground)	Max. 330 pf/100 m at 1kHz
Characteristic impedance (1 - 100MHz)	(100±15) Ω at 1 - 250MHz
Nominal velocity of propagation	67%
Propagation delay	≤ 535 ns / 100 m
Delay skew	≤ 45 ns / 100 m

Transmission characteristics acc. TIA 568-C.2 CAT 6 (20° C)

Freq. (MHz)	Impedance Ω	Attenuation (dB) max.	NEXT (dB) min.	PS-NEXT (dB) min.	ACR (dB) min.	PSACR (dB) min.	ELFEXT (dB) min.	PSELFEXT (dB) min.	Return Loss (dB) min.	Propagation Delay (ns) max.	Delay Skew (ns) max.
1	100 ± 15	2.0	74.3	72.3	72.3	70.3	67.8	64.8	20.0	570.0	45
4		3.8	65.3	63.3	61.5	59.5	55.8	52.8	23.0	552.0	
8		5.3	60.8	58.8	55.5	53.5	49.7	46.7	24.5	546.7	
10		6.0	59.3	57.3	53.3	51.3	47.8	44.8	25.0	545.4	
16		7.6	56.3	54.3	48.7	46.7	43.7	40.7	25.0	543.0	
20		8.5	54.8	52.8	46.3	44.3	41.8	38.8	25.0	542.1	
25		9.5	53.4	51.4	43.9	41.9	39.8	36.8	24.3	541.2	
31.25		10.7	51.9	49.9	41.2	39.2	37.9	34.9	23.6	540.4	
62.5		15.4	47.4	45.4	32.0	31.0	31.9	28.9	21.5	535.9	
100		19.8	44.3	42.3	24.5	22.5	27.8	24.8	20.1	537.6	
200		29.0	39.8	37.8	10.8	8.8	21.8	18.8	18.0	536.6	
250		32.8	38.4	36.4	5.6	3.6	19.8	16.8	17.3	536.3	

RoHS ISO 9001 REGISTERED Quality Manufacturer

K/9 #3152_SS_CAT6_U/UTP_4p_a

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