

**PRODUCT DATASHEET: CATEGORY 6A U/UTP 4 PAIR 23 AWG LSZH**

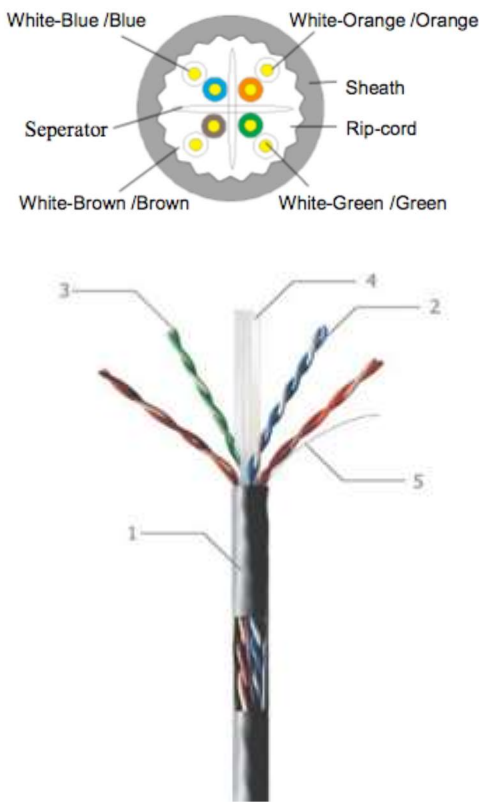
**Description**

- Rated temperature: 75 °C
- Reference standard: ANSI/TIA-568-C.2,
- IEC61156-5 & IEC/ISO 11801
- FLAME PROPERTIES
- Flammability Test – IEC 60332-1
- PH and Toxicity Index – IEC 60754 P I & II
- Smoke Density – IEC 61034
- Compliant to CPR Eca – Fire Class

**Application**

- Supports category 6A networks running up to 500 MHz applications
- Horizontal and backbone installations
- 100 Base T4
- 100 Base TX
- 100 VG AnyLAN
- 1000 Base-T
- 1000 Base-TX
- 155 Mbps ATM
- 622 Mbps ATM
- 10Gb Ethernet

**Product Figure**



- 1 – Jacket
- 2 – Insulation
- 3 - Conductor
- 4 – Filler
- 5 – Rip cord

**Physical Characteristics**

<b>Insulation</b>	Construction	U/UTP
	Number of pairs	4Pair
	AWG	23 AWG (0.57 +/- 0.015 mm)
	Solid or stranded; bare or tinned	Solid bare copper
<b>Filler</b>	Insulation Material	HDPE
	Number colour (stripe marking)	1.Blue, White/Blue(stripe) 2.Orange, White/Orange(stripe) 3.Green, White/Green(stripe) 4.Brown, White/Brown(stripe)
	Outer jacket material	LSZH
	Overall dimension	7.2 +/- 0.5 mm
<b>Mechanical</b>	Outer jacket rip cord	Yes
	Outer jacket colour	Grey RAL7035
<b>Electrical</b>	Operating temp. range	-20 °C ~ +70 °C
	Nom. mutual capacitance	<=5.6 nF/100m @1KHz
<b>characteristics</b>	Max. capacitance unbalance	<=330 pF/100m
	Nominal velocity of propagation	69%
	Worst cable skew	45 nS/100m
	Propagation delay skew	536 nS/100m
	Impedance	100±15%Ω
	Max. conductor resistance	80Ω/km (@ 20 °C)
Max. conductor resistance unbalance	<=5% (@ 20 °C)	

• For additional information please contact your sales representative  
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**Transmission Characteristic per 100m**

Frequency (MHz)	Max attenuation (dB/100M)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACRF	PSACRF
1	2.1	20.0	74.3	72.3	67.8	64.8
4	3.8	23.0	65.3	63.3	55.8	52.8
10	5.9	25.0	59.3	57.3	47.8	44.8
16	7.5	25.0	56.2	54.2	43.7	40.7
20	8.4	25.0	54.8	52.8	41.8	38.8
31.25	10.5	23.6	51.9	49.9	37.9	34.9
62.5	15	21.5	47.4	45.4	31.9	28.9
100	19.1	20.1	44.3	42.3	27.8	24.8
200	27.6	18.0	39.8	37.8	21.8	18.8
250	31.1	17.3	38.3	36.3	19.8	16.8
300	34.3	16.8	38.1	35.1	18.3	15.3
500	45.3	15.2	33.8	31.8	13.8	10.8

Alien Cross Talk Test complaint in field condition as per standard implementation best practices, Cable Complies to ANSI/TIA 568 C.2 90 M Permanent Link Alien Cross Talk Testing

**Cable Printing details:**

CISNET CAT6A 4Pair 23AWG UTP LSZH UV <cable PN> RoHS COMPLIANT <month/year> <batch number> XXX m

**Ordering Guide**

Part Number	Description
UC311411	CISNET™ CATEGORY 6A U/UTP 4P 23 AWG LSZH GREY CABLE 305m ON REEL

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