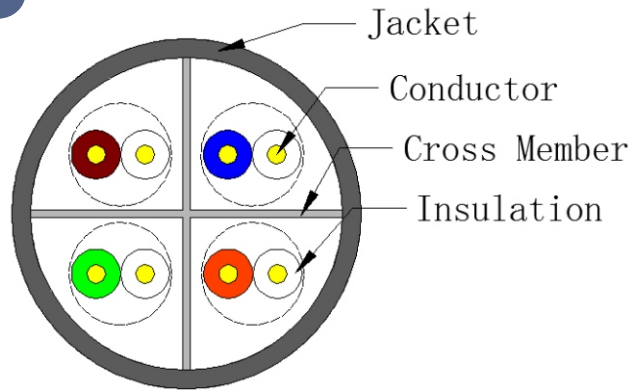


Cat 6A U/UTP LSZH Cable

Features



- Generic cabling systems.
- Standards - ISO 11801 Edition 2.0 & ANSI/TIA-568.2-D
- Including 10Base -T, 100Base -T 1000Base -T, ATM 10G & Token Ring
- IEEE 802.3 af (PoE), IEEE 802.3 at (PoE+)
- Performance tested upto 800MHz

Specifications

Construction

Conductor	23 AWG annealed bare copper
Conductor Size:	23 AWG
Insulation	HDPE
Color Code	White/ Blue -Blue, White/ Orange -Orange, White/ Green -Green, White/ Brown -Brown
Sheath	RoHS LSZH Material
Overall Diameter	Nominal Diameter 7.0+/- 0.4 mm
Available Cable Color	Grey & Blue * Other colors are also available according to customer requirements
Additional Components	Cable is supplied without ripcord unless specified by the customer Central separator for improved performance.
Printing	Jacket printed Black with Legend as per customer requirement

Cat 6A U/UTP LSZH Cable

Mechanical Characteristics

Storage Temperature Range	-20°C To +75°C
Installation Temperature Range	-5°C To +50°C
Operating Temperature Range:	-20°C To +75°C
Nominal Weight	18kg/ 305mtr
Max. Recommended Pulling	100N

Specifications

Environmental properties and Fire Performances

Fire Performance	IEC60332-1-2
Smoke density	IEC 61034-2
Halogen acid gas emission	IEC 60754-1&-2

Low Frequency and DC (at 20°C)

D.C. resistance conductor	≤9.5 Ω/100m
Resistance unbalance	5 %
Insulation resistance	≥ 5000 MΩ.km
Mutual capacitance	< 5.6 nF/100M
Capacitance unbalance	330 pF/100m
Nominal velocity of propagation	69%
Characteristic Impedance (Ohms)	1 - 250 MHz: 100 ± 15% , 250 - 500 MHz: 100 ± 25%
Delay Skew	≤ 45ns

Cat 6A U/UTP LSZH Cable

Specifications

Electrical Performance

Frequency (MHz)	Insertion loss	NEXT	NEXT PS	ACR PS	ACR F	ACR F PS	Return Loss	Delay	ANEXT PS	AACRF PS
1	2.1	74.3	73.3	71.2	67.8	64.8	20.0	570	67.0	67.0
4	3.8	65.3	64.3	60.5	55.8	52.8	23.0	552	67.0	66.2
8	5.3	60.8	59.8	54.4	49.7	46.7	24.5	547	67.0	60.1
10	5.9	59.3	58.3	52.4	47.8	44.8	25.0	545	67.0	58.2
16	7.5	56.2	55.2	47.8	43.7	40.7	25.0	543	67.0	54.1
20	8.4	54.8	53.8	45.4	41.8	38.8	25.0	542	67.0	52.2
25	9.4	53.3	52.3	43.0	39.8	36.8	24.3	541	67.0	50.2
31.25	10.5	51.9	50.9	40.4	37.9	34.9	23.6	540	67.0	48.3
62.5	15.0	47.4	46.4	31.4	31.9	28.9	21.5	539	65.6	42.3
100	19.1	44.3	43.8	24.2	27.8	24.8	20.1	538	62.5	38.2
200	27.6	39.8	38.8	11.2	21.8	18.8	18.0	537	58.0	32.2
250	31.1	38.3	37.8	6.3	19.8	16.8	17.3	536	56.5	30.2
300	34.3	37.1	36.1	1.9	18.3	15.3	16.8	536	55.3	28.7
350	37.2	36.1	35.1		16.9	13.9	16.3	536	54.3	27.3
400	40.1	35.3	34.3		15.8	12.8	15.9	536	53.5	26.2
450	42.7	34.5	35.5		14.7	11.7	15.5	536	52.7	25.1
500	45.3	33.8	32.8		13.8	10.8	15.2	536	52.0	24.2

Cable Length

305m / Reel or 500meter / Reel standard

Ordering Information

Number	Description
GCTCAUT3BLZ3X	Genius Cat 6A UTP LAN cable LSZH 305 mtr Blue
GCTCAUT3GLZ3X	Genius Cat 6A UTP LAN cable LSZH 305 mtr Gray