

## Cat6a U/UTP Cable

### PRODUCT APPLICATION

- Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs
- Supports Gigabit Ethernet (10GbaseT) standard
- Operates at a bandwidth of 500MHz

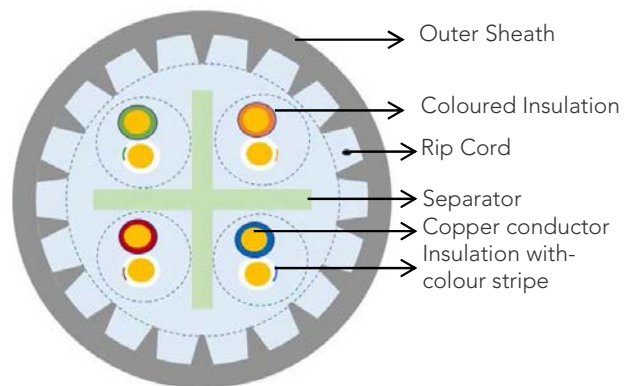
This cable complies to the requirements of ANSI/TIA-568-C.2 90m permanent link



### CONSTRUCTION

Conductor	: 23 AWG Solid bare Copper
Insulation	: High Density Polyethylene
Pairs	: 2 Insulated conductors twisted together
Separator	: Polyolefin
Sheath	: FR PVC - Corrugated Jacket

Cable Diameter: 6.5 ± 0.3 mm



### ELECTRICAL CHARACTERISTICS

Characteristic Impedance	: 100 + 15 Ω
Mutual Capacitance	: <5.6nF/100m
Resistance Unbalance	: 5% Max
Capacitance Unbalance	: 330pF/100m
Delay Skew	: < 45nS
Conductor Resistance	: <9.381Ω/100m

### COLOUR CODE

<u>PAIR NO</u>	<u>COLOUR</u>
1-2	White-Orange Stripe & Orange
3-6	White-Green Stripe & Green
4-5	White-Blue Stripe & Blue
7-8	White-Brown Stripe & Brown

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### TRANSMISSION CHARACTERISTICS

Frequency (MHz)	Insertion Loss Max (dB)	Next(dB) Min.	RL (dB) Min.	PS NEXT (dB) Min.	ACR-F (dB) Min.	PS-ACR-F(dB) Min.
1	1.9	65	19.1	62.0	67.8	64.8
4	3.5	64.1	21.0	61.8	15.8	52.8
10	5.5	57.8	21.0	55.5	87.8	84.8
16	7.0	54.6	20	52.2	83.7	40.7
20	7.84	53.1	19.5	50.7	81.8	38.8
31.25	9.8	50.0	18.5	47.5	37.9	34.9
62.5	14.0	45.1	16.0	42.7	31.9	28.9
100	18.0	41.8	14.0	39.3	27.8	24.8
200	26.1	36.9	11.0	34.3	21.8	18.8
250	29.5	35.3	10.0	32.7	59.8	56.8
300	32.7	34.0	9.2	31.4	58.3	55.3
500	43.8	26.7	8.0	23.8	53.8	10.8

### MECHANICAL CHARACTERISTICS

Bending Radius	: < 4 x Cable Diameter at -20°C ± 1°
Pulling Force	: 11.5 Kgs
Temperature Range	
Installation	: 0° to +50°C
Operation	:-20° to +70°C

### ORDERING INFORMATION

MODEL NAME	DESCRIPTION
NCB-6AUGRYR-305	Cat.6a U/UTP CABLE,305MTR,PVC Sheath