



1. Conductor: Solid bare copper AWG23
2. Insulation: PE, colour code according to EIA/TIA 568
3. Cross filler: PE
4. Outer jacket: PVC or LSZH

Category 6_A U-UTP Copper Cable

This cable is suitable for indoor use, in static applications. This cable is used for generic cabling systems including structured cabling and data centres.

Features and Benefits

- Component compliant
- Enhance NEXT performance
- Designed to minimise Alien Cross-Talk
- Available in various colours
- LSZH Option available

Applications

- 10GBASE-T Ethernet
- 1000BASE-T Gigabit Ethernet
- 100BASE-TX Fast Ethernet
- 10BASE-T Ethernet
- Broadband Video
- 155/622 Mbps ATM
- 100 Mbps TP-PMD
- 4/16 Mbps Token Ring
- Voice

Standards

CABLE	IEC 61156-5 Cat6a
SYSTEM	AS/NZS 11801.1:2019, ANSI/TIA 568.2-D, UL Subject 444, ACMA

Electrical Properties

Max. Electrical Resistance of Conductors	95 Ω / Km
Mutual Capacitance (nom.)	50 pF / m
Characteristic impedance from 1 to 500 MHz	100 Ω
Delay Skew	≤ 45 ns/100 m from 4 to 500 MHz
NVP	≥ 64%

Construction

Conductor	23AWG annealed bare copper
Insulation	Polyethylene
Colour Code	White/Blue-Blue, White/Orange-Orange, White/Green-Green, White/Brown-Brown
Outer Jacket	LSZH or PVC compound upon customer request.
Overall Diameter	Nominal Diameter 8.2+/- 0.5 mm
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

Mechanical Characteristics

Maximum Pulling Force	100 N
Minimum Bending Radius	Once installed 4 x OD, During installation 8 x OD
Nominal Weight	70 KG/KM
Operating Temperature	-15°C ~ +60°C
Installation Temperature	+0°C ~ +50°C
Fire Performance	PVC: VW1, CMX, CM, CMG, CMR, IEC60332.1 LSZH: IEC60332.1, IEC60332.3

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Electrical Performance

Transmission Frequency (MHZ)	1	4	10	16	20	31.25	62.5	100	200	250	500
NEXT dB	74.3	65.3	59.3	56.2	54.8	51.9	47.4	44.3	39.8	38.3	33.8
Characteristic Impedance (ohm)	100+/- 15								+/- 22		+/- 25
Attenuation dB/100 m	2.1	3.8	5.9	7.5	8.4	10.5	15.0	19.1	27.6	31.1	45.3
Return Loss dB	20	23	25	25	25	23.6	21.5	20.1	18	17.3	15.2
PSNEXT dB	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	37.8	36.3	31.8
ACRF dB	67.8	55.8	47.8	43.7	41.8	37.9	31.9	27.8	21.8	19.8	13.8
PS ACRF dB	64.8	52.8	44.8	40.7	38.8	34.9	28.9	24.8	18.8	16.8	10.8
PS ANEXT dB	92.5	83.5	77.5	74.4	73.0	70.1	65.6	62.5	58.0	56.5	52.0
PS AACRF dB	78.2	66.2	58.2	54.1	52.2	48.3	42.3	38.2	32.2	30.2	24.2
Delay ns/100 m	570	552	545	543	542	540	539	538	537	536	536
Skew ns/100 m	45										

Ordering Information

PART NUMBER	DESCRIPTION
AFLCABLE6A-xx-L	C6A U-UTP CABLE [COLOUR] 305M REEL, LSZH

Note: xx = colour

Example: AFLCABLE6A-BL-L - C6A U-UTP CABLE BLUE 305M REEL, LSZH

COLOUR OPTIONS*
BL - Blue
BK - Black
GN - Green
GY - Grey
OR - Orange
PK - Pink
PL - Purple
RD - Red
WH - White
YL - Yellow

* Not all colour options stocked, Please contact AFL for availability.