



Category 6 U/UTP Copper Cable

This range of unscreened cables is designed to support Cat 6 Link and Channel performance.

Standards

- ANSI/TIA 568.2-D
- AS/NZS 11801.1:2019
- UL Subject 444
- YD/T1019
- Flame Retardant IEC 332-3

Applications

Generic cabling systems. Including 10Base -T, 100Base -T 1000Base -T, ATM and Token Ring.

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 6.0 +/- 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	45 KG/KM
Operating Temperature	-15 Deg C ~ +60 Deg C
Installation Temperature	+0 Deg C ~ +50 Deg C
Fire Performance	PVC: VW1, CMX, CM, CMG, CMR, IEC60332.1. LSZH: IEC60332.1, IEC60332.3 Upon Customer's Request

Supplied Cable Length

Cable length	305 m standard Upon Customer's Request
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Electrical Performance

Transmission Frequency (MHZ)	1	4	10	16	20	31.25	62.5	100	200	250
NEXT dB	74.3	65.3	59.3	56.2	54.8	51.9	47.4	44.3	39.8	38.3
Characteristic Impedance (ohm)	100 +/- 15								+/- 22	
Attenuation dB / 100 m	2.1	3.8	5.9	7.5	8.4	10.7	15.4	19.8	29.0	32.8
Return Loss dB	20	23	25	25	25	23.6	21.5	20.1	18	17.3
PSNEXT dB	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	37.8	36.3
ACRF dB	67.8	55.8	47.8	43.7	41.8	37.9	31.9	27.8	21.8	19.8
PS ACRF dB	64.8	52.8	44.8	40.7	38.8	34.9	28.9	24.8	18.8	16.8
Delay ns / 100 m	570	552	545	543	542	540	539	538	537	536
Skew ns / 100 m	45									
NVP	≥ 65%									

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Ordering Information

PART NUMBER	DESCRIPTION
AFLCABLE6U-xx-L	C6 U-UTP CABLE [COLOUR] 305M BOX, LSZH

Note: xx = colour

Example: AFLCABLE6U-BL-L - C6 U-UTP CABLE BLUE 305M BOX, 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.