

Category 6A – F/UTP Ethernet Cable

Product Overview

Alston Systems Category6A F/UTP Ethernet Cable can be used horizontal or vertical configuration as backbone. It constitutes the base of structured cabling network and helps in transmission of high speed data, digital and analogue voice and video signals. These cables are made of 23 AWG copper wires with a frequency of 500MHz can transmit data at 10 BASE-T, 100BASE-TX, 1000BASE-T and 10G BASE-T (Gigabit Ethernet).



Construction

Construction	Conductor	Pairs	Jacket	Shielding	Nom O.D (mm)
F/UTP	23AWG	4	PVC	Overall	7.5
F/UTP	23AWG	4	LSZH	Overall	7.5

Specifications

Conductor	0.58mm Bare Solid Copper
Insulation	1.02mm Color-coded PE
Spline	White PE
Braiding	Aluminium Foil
Jacket	PVC/LSZH
Rated Temperature	-25° C to +85° C

Standards

- IEC 61156-5:2009 (Ed2.0)
- UL1581 ANSI/TIA-568.C.2
- ISO /IEC 11801:2002(Ed.2.0) including amendments A1:2008 and A2”2010
- EN 50173-1:2011, EN50173-2:2007 including amendment A1:2010, ANSI/TIA-568-C.2:2009

Electrical Characteristics

Frequency (MHz)	Impedance (Ohm)	RL (dB)	Attenuation (dB/100m)	NEXT (dB)	NEXT Power Sum (dB)	ELFECT (dB)	PSELFEXT (dB)
1	100±15	20.00	2.10	74.3	72.3	67.8	64.8
4	100±15	23.00	3.80	65.3	63.3	55.8	52.8
8	100±15	24.50	5.30	60.8	58.8	49.7	46.7
10	100±15	25.00	5.90	59.3	57.3	47.8	44.8
16	100±15	25.00	7.50	56.2	54.2	43.7	40.7
20	100±15	25.00	8.40	54.8	52.8	41.8	38.8
25	100±15	24.30	9.40	53.3	51.3	39.8	36.8
31.25	100±15	23.60	10.50	51.9	49.9	37.9	34.9
62.50	100±15	21.50	15.00	47.4	45.4	31.9	28.9
100	100±15	20.10	19.10	44.3	42.3	27.8	24.8
200	100±20	18.00	27.60	39.8	37.8	21.8	18.8
300	100±20	16.80	34.40	37.1	35.1	18.3	15.3
400	15.90	40.10	35.3	33.3	15.8	12.8	400
500	15.20	45.30	33.8	31.8	13.8	10.8	500

Ordering Information

Part Number	Description
30140061X	Alston Systems, Category 6A F/UTP Ethernet Cable, 23 AWG 305m/roll, PVC
30240061X	Alston Systems, Category 6A F/UTP Ethernet Cable, 23 AWG 305m/roll, LSZH

Note: "X" denotes the color of the cable. (1 – Blue, 2 – Gray, 3 – Black, 4 – Green, 5 – Red, 6 – White, 7 – Yellow, 9-Orange)

Note: Available in 500meters/roll upon request.