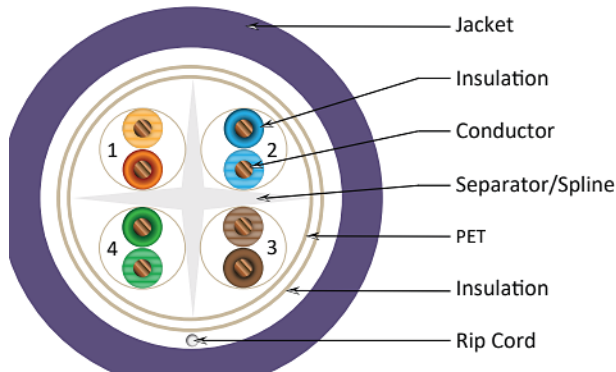


Copper Cabling System

CAT6A U/UTP Cable, Frequency 1-500MHz, Unshielded



Features:

- 10G BASE-T applications
- Data cable for structured premises cabling up to Class EA applications
- Digital and analog voice, video and data signal transmission
- Power over Ethernet (PoE) / PoE+
- Cross filler inside to offer better NEXT and ANEXT performance
- Discontinuous shielded foil technology for excellent resistance to external crosstalk
- LSZH flame retardant cables comply with IEC 60332-1-2, IEC 60332-3
- Durable length markings to reduce waste of cables

Item # / Description

Item #	Description
HEC6AU3PE	CAT6A U/UTP, PE, Black, 305m/Box
HEC6AU1CM	CAT6A U/UTP, CM, Blue, 305m/Box
HEC6AU1PC	CAT6A U/UTP, PVC, Blue, 305m/Box
HEC6AU5LZ	CAT6A U/UTP, LSZH, Orange, 305m/Box

Standard Compliance:

- ISO/IEC 11801
- ANSI/TIA/EIA-568.2-D
- IEC 61156-5
- EN 50173-1

Construction / Dimensions

Type	U/UTP CAT6A 4x2x23AWG
Conductor structure	23 AWG, Solid Bare Copper
Insulation material	Polyolefin
Wrap	PET
Separator	Cross filler / Spline
Jacket material	PVC / LSZH / CM / CMR
Jacket diameter	7.4 ± 0.3 mm
Installation temperature range	0°C ~ +70°C (32~158°F)
Operating temperature range	-20°C ~ +70°C (-4~158°F)

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Physical Performance:

Tensile	110N
Min. Bend Radius	10 times max jacket diameter
Installation and Storage Temperature	0~70°C (32~158°F)
Operating Temperature	-20~70°C (-4~158°F)

Electrical Characteristics:

DC Resistance of Each Conductor	≤ 9.38Ω/100m
Unbalance DC Resistance of Each Pair	≤ 2.5%
Impedance (Ω)	1~100MHz 100±15% 100~250MHz 100±22% 250~500MHz 100±25%
NVP	65%
Propagation Delay	≤ 45ns/100m

Nominal Transmission Characteristics:

Freq. (MHz)	RL Min (dB)	IL Max (dB/100m)	DoP Max (ns)	Skew Max (ns)	NEXT Min (dB)	PSNEX T Min (dB)	ELFEXT Min (dB)	PS ELFEXT Min (dB)	PSANE XT Min (dB)	PSAAC R-F Min (dB)
1	20.0	2.1	570	45	75.3	72.3	68	65	67	67
4	23.0	3.8	552	45	66.3	63.3	56	53	67	66.2
16	25.0	7.5	543	45	57.2	54.2	44	41	67	54.1
20	25.0	8.4	542	45	55.8	52.8	42	39	67	52.2
31.25	23.6	10.5	540	45	52.9	49.9	38	35	67	48.3
62.5	21.5	15.0	539	45	48.4	45.4	32	29	65.6	42.3
100	20.1	19.1	538	45	45.3	42.3	28	25	62.5	38.2
250	17.3	31.1	536	45	39.3	36.3	20	17	56.5	30.2
500	15.2	45.3	536	45	34.8	31.8	14	11	52.0	24.2