

## AT-6 UTP/FTP NETWORKING CABLES

CAT-6 Cables are used for LAN (local area network), Data center & Video applications delivering 1000base-t Gigabit Ethernet, 100base-Tx fast Ethernet and for composite video.

<b>PHYSICAL CONSTRUCTION</b>	
CONDUCTOR	4xTwistedPairs, 23AWG/0.56mm, Bare Annealed solid copper wire
INSULATION CONDUCTOR	HDPE
PAIRS CONDUCTOR	4
	PAIRS
	White-Blue/Blue
	White-Orange/Orange
	White-Green/Green
	White-Brown/Brown
RIPCORDER/DIVIDER	Yes/Yes
OUTER SHEATH	LDPE/PVC
SHEATH COLOUR	BLACK/GREY(can be customized)
STANDARD LENGTH	305 meters
PACKAGING	PULL UP BOX/COILS.

<b>PHYSICAL CHARACTERISTICS</b>					
Conductor Size	Insulation Dia.(mm.)	Nom. Thickness Of Sheath(mm.)	Nom. Overall Dia.(mm.)	Min. Install Bend Radius(mm.)	Max. Pulling Tension (Newton)
23Awg/0.56mm	0.94	0.65	5.9±0.1	65	200

**ELECTRICAL CHARACTERISTICS**

C.R ( $\Omega$ /100M)	Max. Mutual Capacitance (pF/m)	Impedance ( $\Omega$ )	Velocity of Propagation (%)	Max. Delay Skew (ns/100m)	Max. Operating Voltage(Volts RMS)
9.39	56	100 $\pm$ 15	67	45	300

**PERFORMANCE CHART**

Frequenc y MHz	Return Loss (dB/100m )	Max. Attenuatio n (dB/100m)	Min. NEXT dB	Max. Time Delay (ns/100m)	Min. PSNEXT (dB)	Min. ELFEXT (dB)	Min. PSELFEXT
1	20	2.0	74.3	570	72.3	67.8	64
4	23	3.9	65.4	552	63	55.8	59
8	24.5	5.5	60.8	546.7	58.5	49.7	46.7
10	25	6.3	59	545	57.5	47.7	44.8
16	25	7.5	56	542	54.2	43	40.7
20	25	8.5	54.8	541	53	41.5	38.8
25	24.3	9.8	53.3	540	51	39.8	36.8
31.25	23.6	10.7	51.9	540	49	37.9	34.9
62.5	21.5	15.5	47.9	537.4	45.5	31.9	28.9
100	20.3	19.8	44.4	536.8	42.4	27.8	25
200	18	29	39.8	536.6	37.8	21.7	18.6
250	17.7	32.9	38.3	536.2	36.3	20	16.9