

CAPIXA INDUSTRIES

CAT6 - 4PAIR NETWORKING CABLES (ORDER MOQ- 100)

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

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

PHYSICAL CHARACTERISTICS					
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 (Ω/100M)	Max. Mutual Capacitance (pF/m)	Impedance (Ω)	Velocity of Propagation (%)	Max. Delay Skew (ns/100m)	Max. Operating Voltage (Volts RMS)
9.39	56	100±15	67	45	300

PERFORMANCE CHART

Frequency MHz	Return Loss (dB/100m)	Max. Attenuation (dB/100m)	Min. Next dB	Max. Time Delay (ns/100m)	Min. PSNEXT (dB)	Min. ELNEXT (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	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

