

## 254246A

4 Pair 23AWG UTP Cat6A 10G CMP

10/100/1000/10000 BaseT Ethernet, 10G Networks, iPBaseT AV, Digital Integration

### Construction & Dimensions

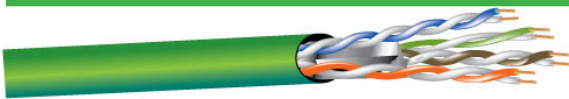
CONDUCTOR PARAMETERS		-
Number Of Pairs		4
AWG Size		23
Conductor Stranding		Solid
Conductor Type		Bare Copper
Nominal DCR		21 Ohm/1000ft
INSULATION PARAMETERS		-
Insulation Type		Flouropolymer
Insulation Color Code		1.Blue,WH-Blue 2.Orange,WH-Orange 3.Green,WH-Green 4.Brown, WH-Brown
SHIELDING PARAMETERS		-
Shield Type		Unshielded Twisted Pair (UTP)
ELECTRICAL CHARACTERISTICS		-
Nominal Impedance		100 Ohm
Nominal Capacitance Between Conductors		13 pF/ft

### Overall Construction

OVERALL CONSTRUCTION PARAMETERS		-
Total Number of Conductors		8
Jacket Type		Flexible Plenum
Nominal Cable O.D.		.307 in
Plenum		Yes
NEC UL Rating		CMP
RoHS Compliant		Yes
ANSI/TIA Category		Category 6A TIA/EIA 568C.2
TIA Test		ANSI/TIA-568-C.2
Pull Tension		25 lbs
Bend Radius		1.25 in
Cable Weight		38 lbs

### Overall Electrical & Optical Characteristics

OVERALL ELECTRICAL/OPTICAL CHARACTERISTICS		-
Nominal Velocity of Propagation (VP)		72 %
Delay Skew		35 ns/100m
UL Flammability		NFPA 262 Plenum
CSA Flammability		FT6
Operating Range		-0 to 75 Deg C
UL Voltage Rating		300



**254246A**

**Electrical Performance**

Frequency (Mhz)	Max. Insertion Loss	Min. NEXT	Min. PSNEXT	Min. PSACR	Min. ACR	Min. PSACRF (PSELF-EXT)	Min. ACRF (ELF-EXT)	Min. PSAACRF	Min. RL (Return Loss)	Min. TCL	Min. ELTCTL	Max/Min Input Imp. Unfit	Max/Min Fitted Imp.
1 MHz	2.1 db/100m	75.3 dB	73.3 dB	71.2 dB	65 dB	68.8 dB	68 dB	67 dB	20 dB	40 dB	35 dB	100 ± 15 Ohm	100 ± 15 Ohm
4 MHz	3.8 db/100m	66.3 dB	64.3 dB	60.5 dB	53 dB	56.8 dB	56 dB	67 dB	23 dB	40 dB	23 dB	100 ± 15 Ohm	100 ± 15 Ohm
8 MHz	5.3 db/100m	60.8 dB	59.6 dB	54.4 dB	46.7 dB	50.7 dB	49.7 dB	61.1 dB	24.5 dB	40 dB	17 dB	100 ± 15 Ohm	100 ± 15 Ohm
10 MHz	5.9 db/100m	60.3 dB	58.3 dB	52.4 dB	45 dB	48.8 dB	48 dB	59.2 dB	25 dB	40 dB	15 dB	100 ± 15 Ohm	100 ± 15 Ohm
16 MHz	7.5 db/100m	57.2 dB	55.2 dB	47.8 dB	41 dB	44.7 dB	43.9 dB	55.1 dB	25 dB	40 dB	10.9 dB	100 ± 15 Ohm	100 ± 15 Ohm
20 MHz	8.4 db/100m	54.8 dB	53.8 dB	45.4 dB	38.8 dB	42.8 dB	41.8 dB	53.2 dB	25 dB	38 dB	9 dB	100 ± 15 Ohm	100 ± 15 Ohm
25 MHz	9.4 db/100m	53.3 dB	52.3 dB	43 dB	36.8 dB	40.8 dB	39.8 dB	51.2 dB	24.3 dB	38 dB	7.1 dB	100 ± 15 Ohm	100 ± 15 Ohm
31.25 MHz	10.5 db/100m	52.9 dB	50.9 dB	40.4 dB	35.1 dB	38.9 dB	38.1 dB	49.3 dB	23.6 dB	35.1 dB	5.1 dB	100 ± 15 Ohm	100 ± 15 Ohm
62.5 MHz	15 db/100m	48.4 dB	46.4 dB	31.4 dB	29.1 dB	32.9 dB	32.1 dB	43.3 dB	21.5 dB	32 dB		100 ± 15 Ohm	100 ± 15 Ohm
100 MHz	19.1 db/100m	45.3 dB	43.3 dB	24.2 dB	25 dB	28.8 dB	28 dB	39.2 dB	20.1 dB	30 dB		100 ± 15 Ohm	100 ± 15 Ohm
155 MHz	24.1 db/100m	41.4 dB	39.4 dB	18.9 dB	22.1 dB	27.1 dB	25.6 dB	37.1 dB	19.2 dB	29 dB		100 ± 15 Ohm	100 ± 15 Ohm
200 MHz	27.6 db/100m	40.8 dB	38.8 dB	11.2 dB	19 dB	22.8 dB	22 dB	33.2 dB	18 dB	27 dB		100 ± 15 Ohm	100 ± 15 Ohm
250 MHz	31.1 db/100m	39.3 dB	37.3 dB	6.3 dB	17 dB	20.8 dB	20 dB	31.2 dB	17.3 dB	26 dB		100 ± 15 Ohm	100 ± 15 Ohm
300 MHz	34.3 db/100m	38.1 dB	36.1 dB	1.9 dB	15.5 dB	19.3 dB	18.5 dB	29.7 dB	16.8 dB	25.2 dB		100 ± 15 Ohm	100 ± 15 Ohm
350 MHz	37.2 db/100m	36.1 dB	35.1 dB		13.9 dB	17.9 dB	16.9 dB	28.3 dB	16.3 dB	24.6 dB		100 ± 15 Ohm	100 ± 15 Ohm
400 MHz	40.1 db/100m	35.3 dB	34.3 dB		12.8 dB	16.8 dB	15.8 dB	27.2 dB	15.9 dB	24 dB		100 ± 15 Ohm	100 ± 15 Ohm
450 MHz	43.3 db/100m	34.8 dB	35.5 dB		12.1 dB	15.7 dB	14.8 dB	26.1 dB	15.5 dB	23.5 dB		100 ± 15 Ohm	100 ± 15 Ohm
500 MHz	45.3 db/100m	34.8 dB	32.8 dB		11 dB	14.8 dB	14 dB	25.2 dB	15.2 dB	23 dB		100 ± 15 Ohm	100 ± 15 Ohm
550 MHz	48.2 db/100m	34.1 dB	32.2 dB		10.5 dB	14 dB	13.2 dB	24.45 dB	14.9 dB			100 ± 15 Ohm	100 ± 15 Ohm
625 MHz	51.2 db/100m	33.4 dB	31.4 dB		9.1 dB	12.9 dB	21.1 dB	23.3 dB	14.5 dB			100 ± 15 Ohm	100 ± 15 Ohm
750 MHz	56.7 db/100m		30.2 dB			11.3 dB		21.7 dB	14.1 dB			100 ± 15 Ohm	100 ± 15 Ohm
860 MHz	61.3 db/100m		29.3 dB			10.1 dB		20.5 dB	13.6 dB			100 ± 15 Ohm	100 ± 15 Ohm
Tested to 750Mhz - Values above 500Mhz are for Engineering Purposes Only													

**Related Products**

RELATED PRODUCTS	
Non Plenum Number	4246A
Jack	KJ458MT-C6AC-xx
Modular Plug	CN-CAPFMUL-S1
Modular Plug 2	90170-BI

**Part Numbers**

Part Number	Jacket Color	Put Up Length	Part Number	Jacket Color	Put Up Length
254246AGY1000	GRAY	1000			
254246ABK1000	BLACK	1000			
254246ABL1000	BLUE	1000			
254246ARD1000	RED	1000			
254246AWH1000	WHITE	1000			
254246AGN1000	ORANGE	1000			