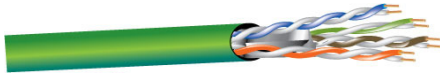


## Detailed Specification & Technical Data



### 4246A

4 Pair 23AWG UTP Cat6A 10G CMR

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

## Construction & Dimensions

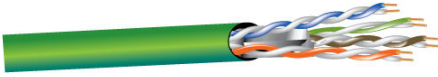
CONDUCTOR PARAMETERS	
Number Of Pairs	4
AWG Size	23
Conductor Stranding	Solid
Conductor Type	Bare Copper
Nominal DCR	21 Ohm/1000ft
INSULATION PARAMETERS	
Insulation Type	Polyolefin
Insulation Color Code	1.Blue,WH-Blue 2.Orange,WH-Orange 3.Green,WH-Green 4.Brown, WH-Brown
SHIELDING PARAMETERS	
Shield Type	Unshielded Twisted Pair (UTP)
ELECTRICAL CHARACTERISTICS	
Nominal Impedance	100 Ohm
Nominal Capacitance Between Conductors	16 pF/ft

## Overall Construction

OVERALL CONSTRUCTION PARAMETERS	
Total Number of Conductors	8
Jacket Type	PVC
Nominal Cable O.D.	.309 in
Plenum	No
NEC UL Rating	CMR, CMR-LP
RoHS Compliant	Yes
ANSI/TIA Category	Category 6A TIA/EIA 568C.2
TIA Test	ANSI/TIA-568-C.2
Pull Tension	35 lbs
Bend Radius	1.25 in
Cable Weight	39 lbs

## Overall Electrical & Optical Characteristics

OVERALL ELECTRICAL/OPTICAL CHARACTERISTICS	
Nominal Velocity of Propagation (VP)	72 %
Delay Skew	35 ns/100m
UL Flammability	UL1666 Vertical Shaft
CSA Flammability	FT4
Operating Range	-20 to 60 Deg C
UL Voltage Rating	300



**4246A**

**Electrical Performance**

Fre- quency (Mhz)	Max. Insertion Loss	Min. NEXT	Min. PSNEXT	Min. PSACR	Min. ACR	Min. PSACRF (PSELF- EXT)	Min. ACRF (ELFEXT)	Min. PSAA- CRF	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	24.4 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 En- gineering Purposes Only													

**Related Products**

RELATED PRODUCTS	
Plenum Number	254246A
Jack	KJ458MT-C6AC-xx
Modular Plug	CN-CAPFMUL-S1
Modular Plug 2	90170-BI