



4346A

4 Pair 23AWG UTP Cat6A 10G CMR 550MHz - Small OD

Suitable Applications: Premise Horizontal Cable, Ethernet 10GBASE-T, Wi-Fi 6, Wi-Fi 5, In-Building Wireless, In-Building Small Cells, Mobile RAN, PoE++, PoE+, PoE, HDBaseT

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	White & Blue, White & Orange, White & Green, White & Brown
SHIELDING PARAMETERS	
Shield Type	Unshielded Twisted Pair (UTP)
ELECTRICAL CHARACTERISTICS	
Nominal Impedance	100 Ohm
Nominal Capacitance Between Conductors	16 pF/ft - 45pF/100m

Overall Construction

OVERALL CONSTRUCTION PARAMETERS	
Total Number of Conductors	8
Jacket Type	PVC
Nominal Cable O.D.	.260 in
Plenum	No
NEC UL Rating	CMR, CMR-LP
RoHS Compliant	Yes
ANSI/TIA Category	ANSI/TIA-568.2-D Category 6A
Pull Tension	25 lbs
Bend Radius	1 in
Cable Weight	37 lbs

Overall Electrical & Optical Characteristics

OVERALL ELECTRICAL/OPTICAL CHARACTERISTICS	
Nominal Velocity of Propagation (VP)	70 %
Delay Skew	45 ns/100m
UL Flammability	UL1666 Vertical Shaft
CSA Flammability	FT4
Operating Range	-20 to 75 Deg C
UL Voltage Rating	300



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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

Related Products

RELATED PRODUCTS	
Plenum Number	254346A
Jack	KJ458MT-C6AC-xx
Modular Plug	CN-CAPFMUL-S1
Modular Plug 2	32-EZEx48 - Use Tool: TL-EXOCRIMP

Channel Reach -PoE

POE	10BaseT	100BaseT	1000BaseT	2.5G/5GBaseT	10GBaseT
15W PoE (Type 1)	140m (459 ft)	140m (459 ft)	100m (328 ft)	100m (328 ft)	100m (328 ft)
30W PoE (Type 2)	130m (426 ft)	130m (426 ft)	100m (328 ft)	100m (328 ft)	100m (328 ft)
60W PoE (Type 3)	130m (426 ft)	130m (426 ft)	100m (328 ft)	100m (328 ft)	100m (328 ft)
100W PoE (Type 4)	120m (394 ft)	120m (394 ft)	100m (328 ft)	100m (328 ft)	100m (328 ft)