



254346A

4 Pair 23AWG UTP Cat6A 10G CMP - 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		Flouropolymer - FEP
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		13 pF/ft

Overall Construction

OVERALL CONSTRUCTION PARAMETERS		-
Total Number of Conductors		8
Jacket Type		Flexible Plenum
Nominal Cable O.D.		.250in
Plenum		Yes
NEC UL Rating		CMP, CMP-LP
RoHS Compliant		Yes
ANSI/TIA Category		ANSI/TIA-568.2-D Category 6A
TIA Test		Category 6A
Pull Tension		25 lbs
Bend Radius		1.25 in
Cable Weight		37 lbs

Overall Electrical & Optical Characteristics

OVERALL ELECTRICAL/OPTICAL CHARACTERISTICS		-
Nominal Velocity of Propagation (VP)		69 %
Delay Skew		45 ns/100m
UL Flammability		NFPA 262 Plenum
CSA Flammability		FT6
Operating Range		-20 to 75 Deg C
UL Voltage Rating		300



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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

Related Products

RELATED PRODUCTS	
Non Plenum Item	4346A
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)