

CAT6a

Cat6a Shielded Plenum

SKU: RCT-C6AP-FUTP-BC-BL

23AWG • 4 Twisted Pairs • CMP • F/UTP

750MHz • Solid Copper



Packaging Available

• 1000ft Reel

Jacket Colors



Key Features

- Bandwidth tested up to 750 MHz
- Suitable for 1 and 10-Gigabit Ethernet
- Easily Identified Color Striped Pairs
- Sequential Footage Markings Every 2ft

- In compliance with ANSI/TIA 568.2-D
- RoHS-3 compliant
- Supports PoE, PoE+, and PoE++ (IEEE 802.3af/at/bt) up to 60W & 300V DC

Print Legend

CAT6A 750MHz CMP PLENUM TP 4-PAIR 23AWG EIA/TIA-568-C.2-1 0002FT-1000FT

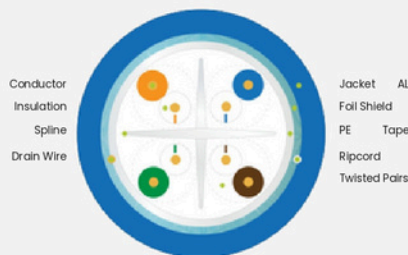
Technical Data

Operating Temp. Range 75°C/167°F

Max. Operating Voltage 300v

Bend Diameter Min. 4in/10mm

Insulation	FEP
Average Thickness	0.24
Min Point Thickness	8
Conductor Insulation Dia. (±0.01mm)	0.228
Twisted Pair Dia. (±0.02mm)	1.08
Spline	2.16
PE-Tape	PE
	Yes
Jacket	CMP-PVC
Average Thickness	0.55 0.50
Min. Point Thickness	7.40 Yes
Overall Diameter (±0.1mm)	
Ripcord	
Shield	F/UTP
Drain Wire (Solid Tinned Copper)	0.40
AL Foil Shield	Yes



Conductor	Solid Bare Copper
Size	23AWG
Conductor Dia. (±0.05mm)	0.585
Color of Pairs	
Pair 1	Blue- White/Blue
Pair 2	Orange- White/Orange
Pair 3	Green- White/Green
Pair 4	Brown- White/Brown

RoHS

Issue Date: October '11

Revision: 4

Electrical Characteristics

Frequency MHz	Return Loss Min (dB)	Attenuation Max (dB/100m)	Next (Min dB)
1.4	20.0	2.1	74.3
8	23.0	3.8	65.3
16	24.5	5.3	60.8
20	25.0	7.5	56.2
62.5	25.0	8.4	54.8
100	21.5	15.0	47.4
200	20.1	19.1	44.3
250	18.0	27.6	39.8
300	17.3	31.1	38.3
500	16.8	34.3	37.1
750	15.2	45.3	33.8
	14.0	62.3	31.1

Frequency MHz	PSNEXT Min (dB)	ELFEXT Min (dB/100m)	PSSELFEXT Min (dB/100m)	Delay Max (ns/100m)
1.4	72.3	67.8	64.8	570.0
8	63.3	55.8	52.8	552.0
16	58.8	49.7	46.7	546.7
20	54.2	43.7	40.7	543.
62.5	52.8	41.8	38.8	0
100	45.4	31.9	28.9	542.0
200	42.3	27.8	24.8	538.
250	37.8	21.8	18.8	6
300	36.3	19.8	16.8	537.6
500	35.1	18.3	15.3	536.
750	31.8	13.8	10.8	5
	29.1	10.3	7.3	536.3
				536.1
				535.
				6
				535.3

1.0-500.0MHz Impedance(ohms) 100 ± 15

1.0-500.0MHz Delay Skew(ns/100m) <= 45

**Pair-to-Ground Capacitance
Unbalance (pF/100m)** <= 3300

**Max. Conductor DC Resistance
20oC (ohms/km)** 68

Resistance Unbalance (%) <= 5

Mechanical Characteristics

Test Object	Jacket	PVC
Test Material	>=13.8	>=100
Before Tensile Strength (Mpa)	100x168	>=85% of
Aging Elongation (%)	unaged	>=50%
Aging Condition (°Cxhrs)	of unaged	No
After Tensile Strength (Mpa)	Crack	
Aging Elongation (%)		
Cold Bend (-20+2° Cx4hrs)		

The information provided herein is, to the best of our knowledge, true and accurate. Since conditions of use are beyond our control, all information presented is without guarantee or responsibility on our part. We disclaim all liability in connection with the use of information contained herein or otherwise.

RoHS

Issue Date: October '11

Revision: 4