

Cat6A Plenum Shielded Solid Bare Copper

SKU :TS-SPBC/6A-BL

23AWG • 4 Twisted Pairs • CMP

• F/UTP 750MHz • Solid Bare 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 F/UTP
4- PAIR 23AWG EIA/TIA-568-C.2-1
0002FT-1000FT

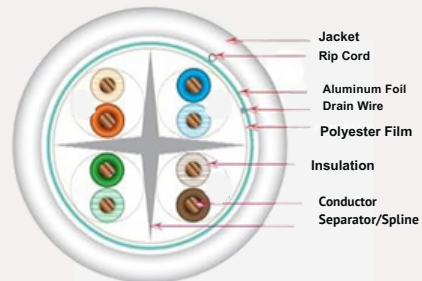
Technical Data

Operating Temp. Range

Max. Operating Voltage

Bend Diameter Min.

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)	75°C/167°F
Ripcord	300v 4in/10mm
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



Electrical Characteristics

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

Frequency MHz	PSNEXT Min (dB)	ELFEXT Min (dB/100m)	PSELFEXT Min (dB/100m)	Delay Max (ns/100m)
1.4	72.3	67.8	64.8	570.0
16	63.3	55.8	52.8	552.0
20	58.8	49.7	46.7	546.7
62.5	54.2	43.7	40.7	543.
100	52.8	41.8	38.8	0
200	45.4	31.9	28.9	542.0
250	42.3	27.8	24.8	538.
300	37.8	21.8	18.8	6
500	36.3	19.8	16.8	537.6
750	35.1	18.3	15.3	536.
	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 20c (ohms/km) 68

Resistance Unbalance (%) <=5

Mechanical Characteristics

Test Object	Jacket	PVC
Test Material	>=13.8	>=100
Before Tensile Strength (Mpa)	100x168	
Aging Elongation (%)	>=85%	
Aging Condition (°Cxhrs)	unaged	
After Tensile Strength (Mpa)	>=50%of	
Aging Elongation (%)	unaged	
Cold Bend (-20+2° Cx4hrs)	Crack	

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