

CAT6A 

Cat6A Shielded Plenum

SKU TS-SPBC/6A-PR

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 STP 4-PAIR 23AWG EIA/TIA-568-C.2-1 0002FT-1000FT

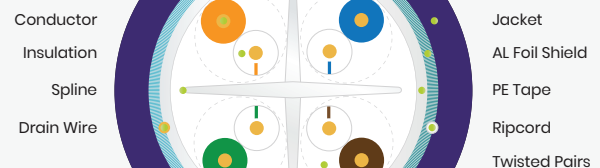
Technical Data

Operating Temp. Range 75°C/167°F

Max. Operating Voltage 300v

Bend Diameter Min. 4in/10mm

Insulation	FEP
Average Thickness	0.248
Min Point Thickness	0.228
Conductor Insulation Dia. (±0.01mm)	1.08
Twisted Pair Dia. (±0.02mm)	2.16
Spline	PE
PE-Tape	Yes
Jacket	CMP-PVC
Average Thickness	0.55
Min. Point Thickness	0.50
Overall Diameter (±0.1mm)	7.40
Ripcord	Yes
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	20.0	2.1	74.3
4	23.0	3.8	65.3
8	24.5	5.3	60.8
16	25.0	7.5	56.2
20	25.0	8.4	54.8
62.5	21.5	15.0	47.4
100	20.1	19.1	44.3
200	18.0	27.6	39.8
250	17.3	31.1	38.3
300	16.8	34.3	37.1
500	15.2	45.3	33.8
750	14.0	62.3	31.1

Frequency MHz	PSNEXT Min (dB)	ELFEXT Min (dB/100m)	PSELFEXT Min (dB/100m)	Delay Max (ns/100m)
1	72.3	67.8	64.8	570.0
4	63.3	55.8	52.8	552.0
8	58.8	49.7	46.7	546.7
16	54.2	43.7	40.7	543.0
20	52.8	41.8	38.8	542.0
62.5	45.4	31.9	28.9	538.6
100	42.3	27.8	24.8	537.6
200	37.8	21.8	18.8	536.5
250	36.3	19.8	16.8	536.3
300	35.1	18.3	15.3	536.1
500	31.8	13.8	10.8	535.6
750	29.1	10.3	7.3	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 20°C (ohms/km) 68

Resistance Unbalance (%) ≤5

Mechanical Characteristics

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

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