

# Cat 6A UTP Super Slim Patch Cord, 32AWGX4P

## Technical Data Sheet

CableMAX Model No. **CM-1002XXXXBSTK**

Rev 250619

Length	Black	Blue	Gray	Green	Orange	Red	White	Yellow	Purple
0.5ft	CM-100289BKBSTK	CM-100289BLBSTK	CM-100289GYBSTK	CM-100289GNBSTK	CM-100289ORBSTK	CM-100289RDBSTK	CM-100289WTBSTK	CM-100289YWBSTK	CM-100289PUBSTK
1ft	CM-100290BKBSTK	CM-100290BLBSTK	CM-100290GYBSTK	CM-100290GNBSTK	CM-100290ORBSTK	CM-100290RDBSTK	CM-100290WTBSTK	CM-100290YWBSTK	CM-100290PUBSTK
1.5ft	CM-100291BKBSTK	CM-100291BLBSTK	CM-100291GYBSTK	CM-100291GNBSTK	CM-100291ORBSTK	CM-100291RDBSTK	CM-100291WTBSTK	CM-100291YWBSTK	CM-100291PUBSTK
2ft	CM-100292BKBSTK	CM-100292BLBSTK	CM-100292GYBSTK	CM-100292GNBSTK	CM-100292ORBSTK	CM-100292RDBSTK	CM-100292WTBSTK	CM-100292YWBSTK	CM-100292PUBSTK
3ft	CM-100293BKBSTK	CM-100293BLBSTK	CM-100293GYBSTK	CM-100293GNBSTK	CM-100293ORBSTK	CM-100293RDBSTK	CM-100293WTBSTK	CM-100293YWBSTK	CM-100293PUBSTK
4ft	CM-100294BKBSTK	CM-100294BLBSTK	CM-100294GYBSTK	CM-100294GNBSTK	CM-100294ORBSTK	CM-100294RDBSTK	CM-100294WTBSTK	CM-100294YWBSTK	CM-100294PUBSTK
5ft	CM-100295BKBSTK	CM-100295BLBSTK	CM-100295GYBSTK	CM-100295GNBSTK	CM-100295ORBSTK	CM-100295RDBSTK	CM-100295WTBSTK	CM-100295YWBSTK	CM-100295PUBSTK
6ft	CM-100296BKBSTK	CM-100296BLBSTK	CM-100296GYBSTK	CM-100296GNBSTK	CM-100296ORBSTK	CM-100296RDBSTK	CM-100296WTBSTK	CM-100296YWBSTK	CM-100296PUBSTK
7ft	CM-100297BKBSTK	CM-100297BLBSTK	CM-100297GYBSTK	CM-100297GNBSTK	CM-100297ORBSTK	CM-100297RDBSTK	CM-100297WTBSTK	CM-100297YWBSTK	CM-100297PUBSTK
10ft	CM-100298BKBSTK	CM-100298BLBSTK	CM-100298GYBSTK	CM-100298GNBSTK	CM-100298ORBSTK	CM-100298RDBSTK	CM-100298WTBSTK	CM-100298YWBSTK	CM-100298PUBSTK

\* Information listed represents all cables within this series

## Specifications

### • Cable Specifications:

CAT6A UTP 4 X 1P[32AWG(7/0.08mm±0.008mm BC)]  
CM PVC JACKET OD: 2.6±0.15mm

### • Standard Reference:

- ISO/IEC 11801:2017
- ANSI/TIA-568.2-D

### • Physical characteristic

- Rated temperature: 75°C
- Installation temperature: -20-60°C
- Operating temperature: -20-75°C
- Min bending radius: 8xOD in Operation: 6xOD after operation
- Safety Characteristics: RoHS-2 2011/65/EU

### • Application

- Support 500MHz bandwidth
- Support 10G Ethernet
- Applied to data centers, servers, switches, wiring racks and other equipment connections

## Compliance

Compliant with TIA/EIA standard by UL; RoHS Compliant



# Electrical Performance

CABLE CONSTRUCTION		
Conductor	Material	Stranded Bare Copper
	Nom.O.D (mm)	7/0.08±0.008mm 32AWGx4P
Insulation HDPE	Average Thickness(mm)	0.1
	Insulation Dia.(±0.05mm)	0.45
	Unaged Elongation	Min. 300%
	Unaged Tensile Strength	Min.1.683 Kgf/mm <sup>2</sup>
Code Color	1 Blue/Blue*White	2 Orange/Orange*White
	3 Green/Green*White	4 Brown/Brown*White
Jacket CM PVC	Average Thickness (mm)	0.55
	Outer Dia.(±0.15mm)	2.6
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength	Min.1.407 Kgf/mm <sup>2</sup>
	Aging at 100°C for 168Hrs	Min. elongation retention:50% Min. tensile strength retention:75%
Marking	SLIM SERIES CAT6A 32AWG UTP CM PVC	

TECHNICAL PERFORMANCE			
TIA Cat 6A Channel Test			
Frequency (MHZ)	Insertion Loss	RL Min (dB)	NEXT Min (dB)
1	3.0	19.0	65.0
4	4.2	19.0	63.0
8	5.8	19.0	58.2
10	6.5	19.0	56.6
16	8.2	18.0	53.2
20	9.2	17.5	51.6
25	10.2	17.0	50.0
31.25	11.5	16.5	48.4
62.25	16.4	14.0	43.4
100	20.9	12.0	39.9
200	30.1	9.0	34.8
250	33.9	8.0	33.1
350	40.6	6.6	30.3
450	46.5	6.0	27.3
500	49.3	6.0	26.1

CHARACTERISTICS	
Dielectric Strength of Insulation	1500 V dc / 1 minute
Insulation Resistance Test	Min. 5000 MΩ·Km
Conductor Resistance	Max. 58.3 Ω/100m at 20°C
Resistance Unbalance	Max. 2%
Capacitance Unbalance	Max. 220 pF/100m

Frequency (MHZ)	PS NEXT Min(dB)	ELFEXT Min(dB)	PSELFEXT Min(dB)	Impedance (Ohms)
1	62.0	63.3	60.3	100±15
4	60.5	51.2	48.2	
8	55.6	45.2	42.2	
10	54.0	43.3	40.3	
16	50.6	39.2	36.2	
20	49.0	37.2	34.2	
25	47.3	35.3	32.3	
31.25	45.7	33.4	30.4	
62.25	40.6	27.3	24.3	
100	37.1	23.3	20.3	
200	31.9	17.2	14.2	
250	30.2	15.3	12.3	
350	27.3	12.4	9.4	
450	24.4	10.2	7.2	
500	23.2	9.3	6.3	

## Configuration

### Cable Cross-Section Structure

