

Cat6A UTP Slim Patch Cord, 28AWGX4P

Technical Data Sheet

CableMAX Model No. **CM-1002XXXXBSTK** Rev 251006

Length	Black	Blue	Gray	Green	Orange	Red	White	Yellow	Purple
0.5ft	CM-100250BKBSTK	CM-100250BLBSTK	CM-100250GYBSTK	CM-100250GNBSTK	CM-100250ORBSTK	CM-100250RDBSTK	CM-100250WTBSTK	CM-100250YWBSTK	CM-100250PUBSTK
0.75ft	CM-100270BKBSTK	CM-100270BLBSTK	CM-100270GYBSTK	CM-100270GNBSTK	CM-100270ORBSTK	CM-100270RDBSTK	CM-100270WTBSTK	CM-100270YWBSTK	CM-100270PUBSTK
1ft	CM-100251BKBSTK	CM-100251BLBSTK	CM-100251GYBSTK	CM-100251GNBSTK	CM-100251ORBSTK	CM-100251RDBSTK	CM-100251WTBSTK	CM-100251YWBSTK	CM-100251PUBSTK
1.5ft	CM-100252BKBSTK	CM-100252BLBSTK	CM-100252GYBSTK	CM-100252GNBSTK	CM-100252ORBSTK	CM-100252RDBSTK	CM-100252WTBSTK	CM-100252YWBSTK	CM-100252PUBSTK
2ft	CM-100253BKBSTK	CM-100253BLBSTK	CM-100253GYBSTK	CM-100253GNBSTK	CM-100253ORBSTK	CM-100253RDBSTK	CM-100253WTBSTK	CM-100253YWBSTK	CM-100253PUBSTK
3ft	CM-100254BKBSTK	CM-100254BLBSTK	CM-100254GYBSTK	CM-100254GNBSTK	CM-100254ORBSTK	CM-100254RDBSTK	CM-100254WTBSTK	CM-100254YWBSTK	CM-100254PUBSTK
5ft	CM-100256BKBSTK	CM-100256BLBSTK	CM-100256GYBSTK	CM-100256GNBSTK	CM-100256ORBSTK	CM-100256RDBSTK	CM-100256WTBSTK	CM-100256YWBSTK	CM-100256PUBSTK
7ft	CM-100258BKBSTK	CM-100258BLBSTK	CM-100258GYBSTK	CM-100258GNBSTK	CM-100258ORBSTK	CM-100258RDBSTK	CM-100258WTBSTK	CM-100258YWBSTK	CM-100258PUBSTK
10ft	CM-100261BKBSTK	CM-100261BLBSTK	CM-100261GYBSTK	CM-100261GNBSTK	CM-100261ORBSTK	CM-100261RDBSTK	CM-100261WTBSTK	CM-100261YWBSTK	CM-100261PUBSTK
15ft	CM-100263BKBSTK	CM-100263BLBSTK	CM-100263GYBSTK	CM-100263GNBSTK	CM-100263ORBSTK	CM-100263RDBSTK	CM-100263WTBSTK	CM-100263YWBSTK	CM-100263PUBSTK
20ft	CM-100264BKBSTK	CM-100264BLBSTK	CM-100264GYBSTK	CM-100264GNBSTK	CM-100264ORBSTK	CM-100264RDBSTK	CM-100264WTBSTK	CM-100264YWBSTK	CM-100264PUBSTK
30ft	CM-100265BKBSTK	CM-100265BLBSTK	CM-100265GYBSTK	CM-100265GNBSTK	CM-100265ORBSTK	CM-100265RDBSTK	CM-100265WTBSTK	CM-100265YWBSTK	CM-100265PUBSTK
50ft	CM-100267BKBSTK	CM-100267BLBSTK	CM-100267GYBSTK	CM-100267GNBSTK	CM-100267ORBSTK	CM-100267RDBSTK	CM-100267WTBSTK	CM-100267YWBSTK	CM-100267PUBSTK

* Information listed represents all cables within this series

Specifications

• Cable Specifications:

CAT6A UTP 4 X 1P[28AWG(7/0.12mm±0.008mm BC)]
CM PVC JACKET OD: 3.6±0.15mm

• Standard Reference:

- All Category 6A Requirements as Per ANSI/TIA, ISO/IEC, and CENELEC EN Standards
- ANSI/TIA-5682-D Cat.6A
- ISO/IEC 3rd Edition 11801 Class Ea
- We Implemented RoHS Compliance for the Requirement of European Union Issued Directive 2011/65/EU

• Physical characteristic

- Rated temperature: 75°C
- Installation temperature: -20-60°C
- Operating temperature: -20-75°C
- Min bending radius:10xOD in Operation:8xOD after operation

• Application

- 1000BASE-T Gigabit Ethernet
- 10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)
- 100 VG - AnyLAN(IEEE802.12)
- 500MHz Broadband Video Voice, T1, ISDN

Compliance

Compliant with TIA/EIA standard by UL & ETL; RoHS Compliant



Electrical Performance

CableMAX is a part of the Coolgear family.

CABLE CONSTRUCTION		
Conductor	Material	Stranded Bare Copper
	Nom.O.D (mm)	7/0.12±0.008mm 28AWGx4P
Insulation HDPE	Average Thickness(mm)	0.3
	Insulation Dia.(±0.05mm)	0.61
	Unaged Elongation	Min. 300%
	Unaged Tensile Strength	Min.1.683 Kgf/mm ²
Code Color	1 Blue/Blue*White	2 Orange/Orange*White
	3 Green/Green*White	4 Brown/Brown*White
Jacket CM PVC	Average Thickness (mm)	0.6
	Outer Dia.(±0.15mm)	3.6
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength	Min.1.407 Kgf/mm ²
	Aging at 100°C for 168Hrs	Min. elongation retention:50% Min. tensile strength retention:75%
Marking	SLIM SERIES CAT6A 28AWG 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

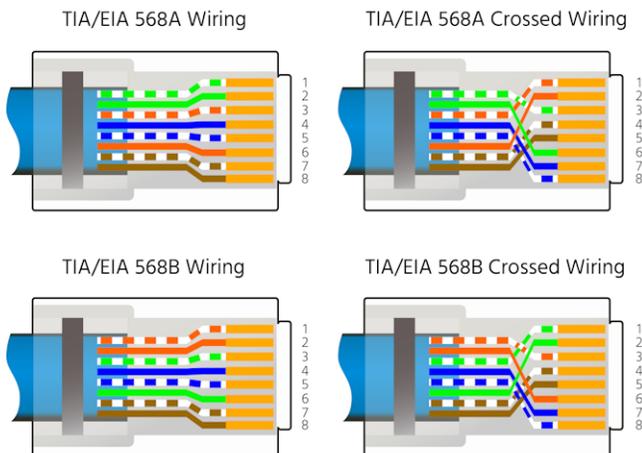
CHARACTERISTICS	
Dielectric Strength of Insulation	1500 V dc / 1 minute
Insulation Resistance Test	Min. 5000 MΩ·Km
Conductor Resistance	Max. 28.45 Ω/100m at 20°C
Resistance Unbalance	Max. 2%
Capacitance Unbalance	Max. 220 pF/100m

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	

RJ45 Termination

For straight cable, use 568A or 568B

For Crossover cable, use 568A at one end, 568B at the other end



Configuration

Cable Cross-Section Structure

