

Cat8 UFTP Slim Patch Cord, 30AWG

Technical Data Sheet

CableMAX Model No. **CM-1003XXXXBSTK**

Rev 250626

Length	Black	Blue	Grey	Green	Orange	Red	White	Yellow	Purple
0.5ft.	CM-100385BKBSTK	CM-100385BLBSTK	CM-100385GYBSTK	CM-100385GNBSTK	CM-100385ORBSTK	CM-100385RDBSTK	CM-100385WTBSTK	CM-100385YWBSTK	CM-100385PUBSTK
1ft.	CM-100386BKBSTK	CM-100386BLBSTK	CM-100386GYBSTK	CM-100386GNBSTK	CM-100386ORBSTK	CM-100386RDBSTK	CM-100386WTBSTK	CM-100386YWBSTK	CM-100386PUBSTK
2ft.	CM-100387BKBSTK	CM-100387BLBSTK	CM-100387GYBSTK	CM-100387GNBSTK	CM-100387ORBSTK	CM-100387RDBSTK	CM-100387WTBSTK	CM-100387YWBSTK	CM-100387PUBSTK
3ft.	CM-100388BKBSTK	CM-100388BLBSTK	CM-100388GYBSTK	CM-100388GNBSTK	CM-100388ORBSTK	CM-100388RDBSTK	CM-100388WTBSTK	CM-100388YWBSTK	CM-100388PUBSTK
5ft.	CM-100390BKBSTK	CM-100390BLBSTK	CM-100390GYBSTK	CM-100390GNBSTK	CM-100390ORBSTK	CM-100390RDBSTK	CM-100390WTBSTK	CM-100390YWBSTK	CM-100390PUBSTK
7ft.	CM-100392BKBSTK	CM-100392BLBSTK	CM-100392GYBSTK	CM-100392GNBSTK	CM-100392ORBSTK	CM-100392RDBSTK	CM-100392WTBSTK	CM-100392YWBSTK	CM-100392PUBSTK
10ft.	CM-100395BKBSTK	CM-100395BLBSTK	CM-100395GYBSTK	CM-100395GNBSTK	CM-100395ORBSTK	CM-100395RDBSTK	CM-100395WTBSTK	CM-100395YWBSTK	CM-100395PUBSTK

* Information listed represents all cables within this series

Specifications

• Cable Specifications:

CAT8 U/FTP 4 X 1P[30AWG(7/0.10mm±0.008mm BC)]+AL/MYLAR+D(7/0.127TC)
CM PVC JACKET OD: 4.5±0.15mm

• Standard Reference:

- All Category 8 Requirements as Per ANSI/TIA, ISO/IEC, and CENELEC EN Standards
- ANSI/TIA-5682-D Cat.8
- ISO/IEC 3rd Edition 11801 Class L
- 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

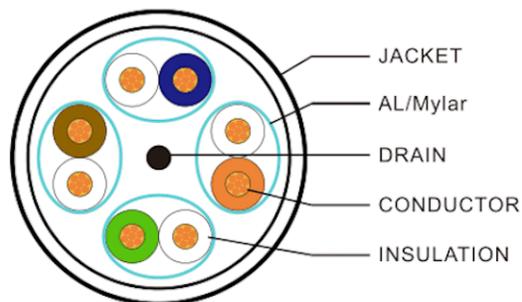
- 1000BASE-T Gigabit Ethernet
- 10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)
- 100 VG - AnyLAN(IEEE802.12)
- 2000MHz Broadband Video Voice, T1, ISDN

Compliance



Configuration

Cable Cross-Section Structure



Electrical Performance

CABLE CONSTRUCTION		
Conductor	Material	Stranded Bare Copper
	Nom.O.D (mm)	7/0.10±0.008mm 30AWGx4P
Insulation HDPE	Average Thickness(mm)	0.3
	Insulation Dia.(±0.05mm)	0.8
	Unaged Elongation	N/A
	Unaged Tensile Strength	N/A
Code Color	1 Blue/Blue*White	2 Orange/Orange*White
	3 Green/Green*White	4 Brown/Brown*White
AL/Mylar	COVERAGE 100%	OVERLAP25%min
DRAIN	Material	TC
	Size (±0.008mm)	7/0.127
Jacket CM PVC	Average Thickness (mm)	0.65
	Outer Dia.(±0.15mm)	4.5
	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	25/40GBase-T CAT 8-2000MHz U/FTP 30AWG PATCH CABLE CM PVC	

CHARACTERISTICS	
Dielectric Strength of Insulation	1500 V dc / 1 minute
Insulation Resistance Test	Min. 500 MΩ·Km
Conductor Resistance	Max. 45.23Ω/100m at 20°C
Resistance Unbalance	Max. 2%
Capacitance Unbalance	Max. 220 pF/100m

TECHNICAL PERFORMANCE				
TIA Cat 8 Channel Test				
Frequency (MHZ)	Insertion Loss	RL Min (dB)	NEXT Min (dB)	
1	3.0	19.0	65.0	
4	3.0	19.0	63.8	
8	3.0	19.0	58.9	
10	3.0	19.0	57.3	
16	3.0	18.0	53.9	
20	3.0	17.5	52.3	
25	3.2	17.0	50.7	
31.25	3.6	16.5	49.1	
62.25	5.1	16.0	44.0	
100	6.5	16.0	40.5	
200	9.3	14.3	35.3	
250	10.4	13.4	33.6	
300	11.5	12.7	32.3	
400	13.3	11.6	30.1	
500	15.0	10.7	27.9	
600	16.5	10.0	25.7	
1000	22.0	8.0	19.3	
1500	27.7	8.0	13.9	
2000	32.7	8.0	9.8	
Frequency (MHZ)	PS NEXT Min(dB)	ELFEXT Min(dB)	PSELFEXT Min(dB)	Impedance (Ohms)
1	62.0	65.0	62.0	100±15
4	60.5	59.9	56.9	
8	55.6	53.9	50.9	
10	54.0	52.0	49.0	
16	50.6	47.9	44.9	
20	49.0	45.9	42.9	
25	47.3	44.0	41.0	
31.25	45.7	42.1	39.1	
62.25	40.6	36.0	33.0	
100	37.1	32.0	29.0	
200	31.9	25.9	22.9	
250	30.2	24.0	21.0	
300	28.8	22.4	19.4	
400	26.6	19.9	16.9	
500	24.8	18.0	15.0	
600	22.7	16.4	13.4	
1000	16.5	12.0	9.0	
1500	11.2	8.4	5.4	
2000	7.3	5.9	2.9	