

Cat.6 Shielded Cables Series (SSTP)

Technical Data Sheet

CableMAX Model No. **CM-1008XXXXBSTK**

Digi-Key Series: **CM-10086SS**

Rev 250619

Length	Black	Blue	Grey	Green	Orange	Red	White	Yellow	Purple
0.5ft.	CM-100816BKBSTK	CM-100816BLBSTK	CM-100816GYBSTK	CM-100816GNBSTK	CM-100816ORBSTK	CM-100816RDBSTK	CM-100816WTBSTK	CM-100816YWBSTK	CM-100816PUBSTK
1ft.	CM-100801BKBSTK	CM-100801BLBSTK	CM-100801GYBSTK	CM-100801GNBSTK	CM-100801ORBSTK	CM-100801RDBSTK	CM-100801WTBSTK	CM-100801YWBSTK	CM-100801PUBSTK
2ft.	CM-100802BKBSTK	CM-100802BLBSTK	CM-100802GYBSTK	CM-100802GNBSTK	CM-100802ORBSTK	CM-100802RDBSTK	CM-100802WTBSTK	CM-100802YWBSTK	CM-100802PUBSTK
3ft.	CM-100803BKBSTK	CM-100803BLBSTK	CM-100803GYBSTK	CM-100803GNBSTK	CM-100803ORBSTK	CM-100803RDBSTK	CM-100803WTBSTK	CM-100803YWBSTK	CM-100803PUBSTK
4ft.	CM-100800BKBSTK	CM-100800BLBSTK	CM-100800GYBSTK	CM-100800GNBSTK	CM-100800ORBSTK	CM-100800RDBSTK	CM-100800WTBSTK	CM-100800YWBSTK	CM-100800PUBSTK
5ft.	CM-100804BKBSTK	CM-100804BLBSTK	CM-100804GYBSTK	CM-100804GNBSTK	CM-100804ORBSTK	CM-100804RDBSTK	CM-100804WTBSTK	CM-100804YWBSTK	CM-100804PUBSTK
6ft.	CM-100814BKBSTK	CM-100814BLBSTK	CM-100814GYBSTK	CM-100814GNBSTK	CM-100814ORBSTK	CM-100814RDBSTK	CM-100814WTBSTK	CM-100814YWBSTK	CM-100814PUBSTK
7ft.	CM-100805BKBSTK	CM-100805BLBSTK	CM-100805GYBSTK	CM-100805GNBSTK	CM-100805ORBSTK	CM-100805RDBSTK	CM-100805WTBSTK	CM-100805YWBSTK	CM-100805PUBSTK
10ft.	CM-100806BKBSTK	CM-100806BLBSTK	CM-100806GYBSTK	CM-100806GNBSTK	CM-100806ORBSTK	CM-100806RDBSTK	CM-100806WTBSTK	CM-100806YWBSTK	CM-100806PUBSTK
15ft.	CM-100807BKBSTK	CM-100807BLBSTK	CM-100807GYBSTK	CM-100807GNBSTK	CM-100807ORBSTK	CM-100807RDBSTK	CM-100807WTBSTK	CM-100807YWBSTK	CM-100807PUBSTK
20ft.	CM-100815BKBSTK	CM-100815BLBSTK	CM-100815GYBSTK	CM-100815GNBSTK	CM-100815ORBSTK	CM-100815RDBSTK	CM-100815WTBSTK	CM-100815YWBSTK	CM-100815PUBSTK
25ft.	CM-100808BKBSTK	CM-100808BLBSTK	CM-100808GYBSTK	CM-100808GNBSTK	CM-100808ORBSTK	CM-100808RDBSTK	CM-100808WTBSTK	CM-100808YWBSTK	CM-100808PUBSTK
50ft.	CM-100809BKBSTK	CM-100809BLBSTK	CM-100809GYBSTK	CM-100809GNBSTK	CM-100809ORBSTK	CM-100809RDBSTK	CM-100809WTBSTK	CM-100809YWBSTK	CM-100809PUBSTK
75ft.	CM-100810BKBSTK	CM-100810BLBSTK	CM-100810GYBSTK	CM-100810GNBSTK	CM-100810ORBSTK	CM-100810RDBSTK	CM-100810WTBSTK	CM-100810YWBSTK	CM-100810PUBSTK
100ft.	CM-100811BKBSTK	CM-100811BLBSTK	CM-100811GYBSTK	CM-100811GNBSTK	CM-100811ORBSTK	CM-100811RDBSTK	CM-100811WTBSTK	CM-100811YWBSTK	CM-100811PUBSTK
125ft.	CM-100890BKBSTK	CM-100890BLBSTK	CM-100890GYBSTK	CM-100890GNBSTK	CM-100890ORBSTK	CM-100890RDBSTK	CM-100890WTBSTK	CM-100890YWBSTK	CM-100890PUBSTK
150ft.	CM-100812BKBSTK	CM-100812BLBSTK	CM-100812GYBSTK	CM-100812GNBSTK	CM-100812ORBSTK	CM-100812RDBSTK	CM-100812WTBSTK	CM-100812YWBSTK	CM-100812PUBSTK
175ft.	CM-100891BKBSTK	CM-100891BLBSTK	CM-100891GYBSTK	CM-100891GNBSTK	CM-100891ORBSTK	CM-100891RDBSTK	CM-100891WTBSTK	CM-100891YWBSTK	CM-100891PUBSTK
200ft.	CM-100813BKBSTK	CM-100813BLBSTK	CM-100813GYBSTK	CM-100813GNBSTK	CM-100813ORBSTK	CM-100813RDBSTK	CM-100813WTBSTK	CM-100813YWBSTK	CM-100813PUBSTK

* Information listed represents all cables within this series

Specifications

• Cable Specifications:

CAT6 SSTP 4 X 1P[26AWG(7/0.16mm±0.008mm BC)]+AL/MYLAR+B(16*5/0.12AL-MG)
CM PVC JACKET OD: 6.0±0.20mm

• Standard Reference:

- All Category 6 Requirements as Per ANSI/TIA, ISO/IEC, and CENELEC EN Standards
- ANSI/TIA-5682-D Cat.6
- ISO/IEC 3rd Edition 11801 Class E
- 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:15xOD in Operation:10xOD after operation

• Application

- 1000BASE-T Gigabit Ethernet
- 10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)
- 100 VG - AnyLAN(IEEE802.12)
- 250MHz Broadband Video Voice, T1, ISDN

Compliance

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



Electrical Performance

CABLE CONSTRUCTION		
Conductor	Material	Stranded Bare Copper
	Nom.O.D (mm)	7/0.16±0.008mm 26AWGx4P
Insulation FMPE	Average Thickness(mm)	0.28
	Insulation Dia.(±0.05mm)	1.02
	Unaged Elongation	N/A
	Unaged Tensile Strength	N/A
Code Color	1 Blue/White	2 Orange/White
	3 Green/White	4 Brown/White
AL/Mylar	COVERAGE 100%	OVERLAP25%min
BRAID	Material	AL-MG
	Size (±0.008mm)	16*5/0.12
Jacket CM PVC	Average Thickness (mm)	0.55
	Outer Dia.(±0.20mm)	6.0
	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	YFC CAT.6 26AWGX4PR SSTP IEC 60332.1 PATCH CABLE- CONFORM TO ISO/IEC 11801 & EN 50288 & ANSI/TIA-568.2-D 3P/ETL VERIFIED ▲ CM(UL) E164469-B3	

CHARACTERISTICS	
Dielectric Strength of Insulation	1500 V dc / 1 minute
Insulation Resistance Test	Min. 500 MΩ·Km
Conductor Resistance	Max. 17.89 Ω/100m at 20°C
Resistance Unbalance	Max. 2%
Capacitance Unbalance	Max. 220 pF/100m

TECHNICAL PERFORMANCE			
TIA Cat 5E Channel Test			
Frequency (MHz)	Insertion Loss	RL Min (dB)	NEXT Min (dB)
1	3.0	17.0	60.0
4	4.5	17.0	53.5
8	6.3	17.0	48.6
10	7.1	17.0	47.0
16	9.1	17.0	43.6
20	10.2	17.0	42.0
25	11.4	16.0	40.3
31.25	12.9	15.1	38.7
62.25	18.6	12.1	33.6
100	24.0	10.0	30.1

Frequency (MHz)	PSNEXT (dB/100m)	ACR-F (dB/100m)	PS ACR-F (dB/100m)	Impedance (Ohms)
1	57.0	57.4	54.4	100±15
4	50.5	45.4	42.4	
8	45.6	39.3	36.3	
10	44.0	37.4	34.4	
16	40.6	33.3	30.3	
20	39.0	31.4	28.4	
25	37.3	29.4	26.4	
31.25	35.7	27.5	24.5	
62.25	30.6	21.5	18.5	
100	37.1	17.4	14.4	

Configuration

Cable Cross-Section Structure

