

# Cat.7 Shielded Cables Series

## Technical Data Sheet

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

Rev 250619

Length	Black	Blue	Grey	White
1ft.	CM-100320BKBSTK	CM-100320BLBSTK	CM-100320GYBSTK	CM-100320WTBSTK
2ft.	CM-100321BKBSTK	CM-100321BLBSTK	CM-100321GYBSTK	CM-100321WTBSTK
3ft.	CM-100322BKBSTK	CM-100322BLBSTK	CM-100322GYBSTK	CM-100322WTBSTK
4ft.	CM-100323BKBSTK	CM-100323BLBSTK	CM-100323GYBSTK	CM-100323WTBSTK
5ft.	CM-100324BKBSTK	CM-100324BLBSTK	CM-100324GYBSTK	CM-100324WTBSTK
6ft.	CM-100325BKBSTK	CM-100325BLBSTK	CM-100325GYBSTK	CM-100325WTBSTK
7ft.	CM-100326BKBSTK	CM-100326BLBSTK	CM-100326GYBSTK	CM-100326WTBSTK
8ft.	CM-100327BKBSTK	CM-100327BLBSTK	CM-100327GYBSTK	CM-100327WTBSTK
9ft.	—	CM-100328BLBSTK	—	—
10ft.	CM-100329BKBSTK	CM-100329BLBSTK	CM-100329GYBSTK	CM-100329WTBSTK
12ft.	CM-100330BKBSTK	CM-100330BLBSTK	CM-100330GYBSTK	CM-100330WTBSTK
15ft.	CM-100331BKBSTK	CM-100331BLBSTK	CM-100331GYBSTK	CM-100331WTBSTK
20ft.	CM-100332BKBSTK	CM-100332BLBSTK	CM-100332GYBSTK	CM-100332WTBSTK
25ft.	CM-100333BKBSTK	CM-100333BLBSTK	CM-100333GYBSTK	CM-100333WTBSTK
30ft.	—	CM-100334BLBSTK	—	—
40ft.	CM-100335BKBSTK	CM-100335BLBSTK	CM-100335GYBSTK	CM-100335WTBSTK
50ft.	CM-100336BKBSTK	CM-100336BLBSTK	CM-100336GYBSTK	CM-100336WTBSTK
100ft.	CM-100341BKBSTK	CM-100341BLBSTK	CM-100341GYBSTK	CM-100341WTBSTK

## Specifications

*\* Information listed represents all cables within this series*

### • Cable Specifications:

CAT7 SSTP 4 X 1P[26AWG(7/0.16mm±0.008mm BC)]+AL/MYLAR+B(16\*5/0.10TC)  
CM PVC JACKET OD: 6.0±0.20mm

### • Standard Reference:

- All Category 7 Requirements as Per ANSI/TIA, ISO/IEC, and CENELEC EN Standards
- ANSI/TIA-5682-D Cat.7
- ISO/IEC 3rd Edition 11801 Class F
- 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)
- 600MHz 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)	7/0.16±0.008mm 26AWGx4P	
Insulation FMPE	Average Thickness(mm)	0.28	
	Insulation Dia.(±0.05mm)	1.04	
	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%	OVERLAP 25%min	
BRAID	Material	TC	
	Size (±0.008mm)	16*5/0.12	
Jacket CM PVC	Average Thickness (mm)	0.6	
	Outer Dia.(±0.20mm)	6.0	
	Unaged Elongation	Min. 100%	
	Unaged Tensile Strength	Min.1.407 Kg/mm <sup>2</sup>	
	Aging at 100°C for 168Hrs	Min. elongation retention:50%	
		Min. tensile strength retention:75%	
Marking	YFC CAT.7 SSTP PATCH 3P VERIFIED TO ANSI/TIA-568.2-D & ISO/IEC 11801 ED.2 & EN 50288-4-2 & IEC 60332-1-2 ▲ 26AWGx4P CM(UL) E164469-B3		

TECHNICAL PERFORMANCE			
TIA Cat 7 Channel Test			
Frequency (MHZ)	Insertion Loss	RL Min (dB)	NEXT Min (dB)
1	4.0	19.0	65.0
4	4.1	19.0	65.0
8	5.7	19.0	65.0
10	6.4	19.0	65.0
16	8.1	18.0	65.0
20	9.1	17.5	65.0
25	10.2	17.0	65.0
31.25	11.4	16.5	65.0
62.25	16.3	14.0	65.0
100	20.8	12.0	62.9
200	30.0	9.0	58.3
250	33.8	8.0	56.9
350	40.5	8.0	54.7
450	46.5	8.0	53.1
500	49.3	8.0	52.4
600	54.6	8.0	51.2

Frequency (MHZ)	PS NEXT Min(dB)	ELFEXT Min(dB)	PSELFEXT Min(dB)	Impedance (Ohms)
1	62.0	65.0	62.0	100±15
4	62.0	65.0	62.0	
8	62.0	62.4	59.4	
10	62.0	60.8	57.8	
16	62.0	57.5	54.5	
20	62.0	55.9	52.9	
25	62.0	54.4	51.4	
31.25	62.0	52.8	49.8	
62.25	62.0	47.8	44.8	
100	59.9	44.4	41.4	
200	55.3	39.4	36.4	
250	53.9	37.8	34.8	
350	51.7	35.3	32.3	
450	50.1	33.4	30.4	
500	49.4	32.6	29.6	
600	48.2	31.3	28.3	

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

## Configuration

### Cable Cross-Section Structure

