

Cat.6 UTP Non-Booted Cables Series

Technical Data Sheet

CableMAX Model No. **CM-1001XXXXBSTK**

Digi-Key Series: **CM-10016U**

Length	Black	Blue	Grey	Green	Orange	Red	White	Yellow	Purple
0.5ft.	CM-100100BKBSTK	CM-100100BLBSTK	CM-100100GYBSTK	CM-100100GNBSTK	CM-100100ORBSTK	CM-100100RDBSTK	CM-100100WTBSTK	CM-100100YWBSTK	CM-100100PUBSTK
1ft.	CM-100101BKBSTK	CM-100101BLBSTK	CM-100101GYBSTK	CM-100101GNBSTK	CM-100101ORBSTK	CM-100101RDBSTK	CM-100101WTBSTK	CM-100101YWBSTK	CM-100101PUBSTK
1.5ft.	CM-100107BKBSTK	CM-100107BLBSTK	CM-100107GYBSTK	CM-100107GNBSTK	CM-100107ORBSTK	CM-100107RDBSTK	CM-100107WTBSTK	CM-100107YWBSTK	CM-100107PUBSTK
2ft.	CM-100102BKBSTK	CM-100102BLBSTK	CM-100102GYBSTK	CM-100102GNBSTK	CM-100102ORBSTK	CM-100102RDBSTK	CM-100102WTBSTK	CM-100102YWBSTK	CM-100102PUBSTK
3ft.	CM-100103BKBSTK	CM-100103BLBSTK	CM-100103GYBSTK	CM-100103GNBSTK	CM-100103ORBSTK	CM-100103RDBSTK	CM-100103WTBSTK	CM-100103YWBSTK	CM-100103PUBSTK
4ft.	CM-100100BKBSTK	CM-100100BLBSTK	CM-100100GYBSTK	CM-100100GNBSTK	CM-100100ORBSTK	CM-100100RDBSTK	CM-100100WTBSTK	CM-100100YWBSTK	CM-100100PUBSTK
5ft.	CM-100104BKBSTK	CM-100104BLBSTK	CM-100104GYBSTK	CM-100104GNBSTK	CM-100104ORBSTK	CM-100104RDBSTK	CM-100104WTBSTK	CM-100104YWBSTK	CM-100104PUBSTK
6ft.	CM-100103BKBSTK	CM-100103BLBSTK	CM-100103GYBSTK	CM-100103GNBSTK	CM-100103ORBSTK	CM-100103RDBSTK	CM-100103WTBSTK	CM-100103YWBSTK	CM-100103PUBSTK
7ft.	CM-100105BKBSTK	CM-100105BLBSTK	CM-100105GYBSTK	CM-100105GNBSTK	CM-100105ORBSTK	CM-100105RDBSTK	CM-100105WTBSTK	CM-100105YWBSTK	CM-100105PUBSTK
8ft.	CM-100148BKBSTK	CM-100148BLBSTK	CM-100148GYBSTK	CM-100148GNBSTK	CM-100148ORBSTK	CM-100148RDBSTK	CM-100148WTBSTK	CM-100148YWBSTK	CM-100148PUBSTK
9ft.	CM-100149BKBSTK	CM-100149BLBSTK	CM-100149GYBSTK	CM-100149GNBSTK	CM-100149ORBSTK	CM-100149RDBSTK	CM-100149WTBSTK	CM-100149YWBSTK	CM-100149PUBSTK
10ft.	CM-100106BKBSTK	CM-100106BLBSTK	CM-100106GYBSTK	CM-100106GNBSTK	CM-100106ORBSTK	CM-100106RDBSTK	CM-100106WTBSTK	CM-100106YWBSTK	CM-100106PUBSTK
12ft.	CM-100147BKBSTK	CM-100147BLBSTK	CM-100147GYBSTK	CM-100147GNBSTK	CM-100147ORBSTK	CM-100147RDBSTK	CM-100147WTBSTK	CM-100147YWBSTK	CM-100147PUBSTK
15ft.	CM-100107BKBSTK	CM-100107BLBSTK	CM-100107GYBSTK	CM-100107GNBSTK	CM-100107ORBSTK	CM-100107RDBSTK	CM-100107WTBSTK	CM-100107YWBSTK	CM-100107PUBSTK
20ft.	CM-100114BKBSTK	CM-100114BLBSTK	CM-100114GYBSTK	CM-100114GNBSTK	CM-100114ORBSTK	CM-100114RDBSTK	CM-100114WTBSTK	CM-100114YWBSTK	CM-100114PUBSTK
25ft.	CM-100108BKBSTK	CM-100108BLBSTK	CM-100108GYBSTK	CM-100108GNBSTK	CM-100108ORBSTK	CM-100108RDBSTK	CM-100108WTBSTK	CM-100108YWBSTK	CM-100108PUBSTK
30ft.	CM-100119BKBSTK	CM-100119BLBSTK	CM-100119GYBSTK	CM-100119GNBSTK	CM-100119ORBSTK	CM-100119RDBSTK	CM-100119WTBSTK	CM-100119YWBSTK	CM-100119PUBSTK
35ft.	CM-100118BKBSTK	CM-100118BLBSTK	CM-100118GYBSTK	CM-100118GNBSTK	CM-100118ORBSTK	CM-100118RDBSTK	CM-100118WTBSTK	CM-100118YWBSTK	CM-100118PUBSTK
40ft.	CM-100120BKBSTK	CM-100120BLBSTK	CM-100120GYBSTK	CM-100120GNBSTK	CM-100120ORBSTK	CM-100120RDBSTK	CM-100120WTBSTK	CM-100120YWBSTK	CM-100120PUBSTK
50ft.	CM-100109BKBSTK	CM-100109BLBSTK	CM-100109GYBSTK	CM-100109GNBSTK	CM-100109ORBSTK	CM-100109RDBSTK	CM-100109WTBSTK	CM-100109YWBSTK	CM-100109PUBSTK
75ft.	CM-100110BKBSTK	CM-100110BLBSTK	CM-100110GYBSTK	CM-100110GNBSTK	CM-100110ORBSTK	CM-100110RDBSTK	CM-100110WTBSTK	CM-100110YWBSTK	CM-100110PUBSTK
100ft.	CM-100111BKBSTK	CM-100111BLBSTK	CM-100111GYBSTK	CM-100111GNBSTK	CM-100111ORBSTK	CM-100111RDBSTK	CM-100111WTBSTK	CM-100111YWBSTK	CM-100111PUBSTK
125ft.	CM-100190BKBSTK	CM-100190BLBSTK	CM-100190GYBSTK	CM-100190GNBSTK	CM-100190ORBSTK	CM-100190RDBSTK	CM-100190WTBSTK	CM-100190YWBSTK	CM-100190PUBSTK
150ft.	CM-100112BKBSTK	CM-100112BLBSTK	CM-100112GYBSTK	CM-100112GNBSTK	CM-100112ORBSTK	CM-100112RDBSTK	CM-100112WTBSTK	CM-100112YWBSTK	CM-100112PUBSTK
175ft.	CM-100191BKBSTK	CM-100191BLBSTK	CM-100191GYBSTK	CM-100191GNBSTK	CM-100191ORBSTK	CM-100191RDBSTK	CM-100191WTBSTK	CM-100191YWBSTK	CM-100191PUBSTK
200ft.	CM-100115BKBSTK	CM-100115BLBSTK	CM-100115GYBSTK	CM-100115GNBSTK	CM-100115ORBSTK	CM-100115RDBSTK	CM-100115WTBSTK	CM-100115YWBSTK	CM-100115PUBSTK

Specifications

* Information listed represents all cables within this series

Conductor	Material / Size	Bare Copper / 24AWG
	Material	HDPE
Insulation	Thickness	Nominal: 0.231 mm
	Diameter	Nominal: 1.05 mm
	Colors	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown
	Unaged Elongation	Min. 300%
	Unaged Tensile Strength	Min. 1.683 Kg/mm ²
	Jacket	Material
Thickness		Nominal: 0.50 mm
Diameter		Nominal: 5.8 mm
Color		Assorted Upon Request
Unaged Elongation		Min. 100%
Unaged Tensile Strength		Min. 1.407 Kg/mm ²
Aging at 100°C for 168Hrs		Min. Elongation Retention: 50% Min. Tensile Strength Retention: 75%

Applications

1000BASE-TX Gigabit Ethernet

10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)

100 VG — AnyLAN (IEEE802.12), 155/622 Mbps ATM

Voice, T1, ISDN

550MHz Broadband Video

Electrical Performance

Dielectric Strength of Insulation		1500 V dc / 2 seconds		
Insulation Resistance Test		Min. 5000 MΩ-Km		
Conductor Resistance		Max. 9.38 Ω/100m at 20°C		
Resistance Unbalance		Max. 2%		
Capacitance Unbalance		Max. 160 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedence	772kHz	125Ω ± 20%		
	1~125MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Max.Attenuation (dB/100 meters)	NEXT (dB), Min.	PSNEXT (dB), Min.
	1 MHz	2.4*	74.3*	72.3*
	4 MHz	4.5*	65.3*	63.3*
	10 MHz	7.1*	59.3*	57.3*
	16 MHz	9.7*	56.2*	54.2*
	20 MHz	10.2*	54.8*	52.8*
	31.25 MHz	12.8*	51.9*	49.9*
	62.5 MHz	18.5*	47.4*	45.4*
	100 MHz	23.8*	44.3*	42.3*
	150 MHz	29.7*	41.4*	39.4*
	200 MHz	34.8*	39.8*	37.8*
	250 MHz	39.4*	38.3*	36.3*

The asterisked (*) value are for information only. The minimum Next coupling loss for anypair combination at room temperature is to be greater than the value determined using the formula: $NEXT(f\text{ MHz}) \geq NEXT(0.772) - 15\text{LOG}_{10}(f\text{ MHz}/0.772)\text{dB}$

Configuration

orange 2 white/orange	green 3 white/green
blue 1 white/blue	brown 4 white/brown

