

Cat.5E UTP Booted Cables Series

Technical Data Sheet

CableMAX Model No. **CM-1005XXXXBSTK**

Digi-Key Series: **CM-10055EU**

Length	Black	Blue	Grey	Green	Orange	Red	White	Yellow	Purple
0.5ft.	CM-100516BKBSTK	CM-100516BLBSTK	CM-100516GYBSTK	CM-100516GNBSTK	CM-100516ORBSTK	CM-100516RDBSTK	CM-100516WTBSTK	CM-100516YWBSTK	CM-100516PUBSTK
1ft.	CM-100501BKBSTK	CM-100501BLBSTK	CM-100501GYBSTK	CM-100501GNBSTK	CM-100501ORBSTK	CM-100501RDBSTK	CM-100501WTBSTK	CM-100501YWBSTK	CM-100501PUBSTK
1.5ft.	CM-100517BKBSTK	CM-100517BLBSTK	CM-100517GYBSTK	CM-100517GNBSTK	CM-100517ORBSTK	CM-100517RDBSTK	CM-100517WTBSTK	CM-100517YWBSTK	CM-100517PUBSTK
2ft.	CM-100502BKBSTK	CM-100502BLBSTK	CM-100502GYBSTK	CM-100502GNBSTK	CM-100502ORBSTK	CM-100502RDBSTK	CM-100502WTBSTK	CM-100502YWBSTK	CM-100502PUBSTK
3ft.	CM-100503BKBSTK	CM-100503BLBSTK	CM-100503GYBSTK	CM-100503GNBSTK	CM-100503ORBSTK	CM-100503RDBSTK	CM-100503WTBSTK	CM-100503YWBSTK	CM-100503PUBSTK
4ft.	CM-100500BKBSTK	CM-100500BLBSTK	CM-100500GYBSTK	CM-100500GNBSTK	CM-100500ORBSTK	CM-100500RDBSTK	CM-100500WTBSTK	CM-100500YWBSTK	CM-100500PUBSTK
5ft.	CM-100504BKBSTK	CM-100504BLBSTK	CM-100504GYBSTK	CM-100504GNBSTK	CM-100504ORBSTK	CM-100504RDBSTK	CM-100504WTBSTK	CM-100504YWBSTK	CM-100504PUBSTK
6ft.	CM-100513BKBSTK	CM-100513BLBSTK	CM-100513GYBSTK	CM-100513GNBSTK	CM-100513ORBSTK	CM-100513RDBSTK	CM-100513WTBSTK	CM-100513YWBSTK	CM-100513PUBSTK
7ft.	CM-100505BKBSTK	CM-100505BLBSTK	CM-100505GYBSTK	CM-100505GNBSTK	CM-100505ORBSTK	CM-100505RDBSTK	CM-100505WTBSTK	CM-100505YWBSTK	CM-100505PUBSTK
8ft.	CM-100541BKBSTK	CM-100541BLBSTK	CM-100541GYBSTK	CM-100541GNBSTK	CM-100541ORBSTK	CM-100541RDBSTK	CM-100541WTBSTK	CM-100541YWBSTK	CM-100541PUBSTK
9ft.	CM-100542BKBSTK	CM-100542BLBSTK	CM-100542GYBSTK	CM-100542GNBSTK	CM-100542ORBSTK	CM-100542RDBSTK	CM-100542WTBSTK	CM-100542YWBSTK	CM-100542PUBSTK
10ft.	CM-100506BKBSTK	CM-100506BLBSTK	CM-100506GYBSTK	CM-100506GNBSTK	CM-100506ORBSTK	CM-100506RDBSTK	CM-100506WTBSTK	CM-100506YWBSTK	CM-100506PUBSTK
12ft.	CM-100540BKBSTK	CM-100540BLBSTK	CM-100540GYBSTK	CM-100540GNBSTK	CM-100540ORBSTK	CM-100540RDBSTK	CM-100540WTBSTK	CM-100540YWBSTK	CM-100540PUBSTK
15ft.	CM-100507BKBSTK	CM-100507BLBSTK	CM-100507GYBSTK	CM-100507GNBSTK	CM-100507ORBSTK	CM-100507RDBSTK	CM-100507WTBSTK	CM-100507YWBSTK	CM-100507PUBSTK
20ft.	CM-100514BKBSTK	CM-100514BLBSTK	CM-100514GYBSTK	CM-100514GNBSTK	CM-100514ORBSTK	CM-100514RDBSTK	CM-100514WTBSTK	CM-100514YWBSTK	CM-100514PUBSTK
25ft.	CM-100508BKBSTK	CM-100508BLBSTK	CM-100508GYBSTK	CM-100508GNBSTK	CM-100508ORBSTK	CM-100508RDBSTK	CM-100508WTBSTK	CM-100508YWBSTK	CM-100508PUBSTK
30ft.	CM-100519BKBSTK	CM-100519BLBSTK	CM-100519GYBSTK	CM-100519GNBSTK	CM-100519ORBSTK	CM-100519RDBSTK	CM-100519WTBSTK	CM-100519YWBSTK	CM-100519PUBSTK
35ft.	CM-100518BKBSTK	CM-100518BLBSTK	CM-100518GYBSTK	CM-100518GNBSTK	CM-100518ORBSTK	CM-100518RDBSTK	CM-100518WTBSTK	CM-100518YWBSTK	CM-100518PUBSTK
40ft.	CM-100520BKBSTK	CM-100520BLBSTK	CM-100520GYBSTK	CM-100520GNBSTK	CM-100520ORBSTK	CM-100520RDBSTK	CM-100520WTBSTK	CM-100520YWBSTK	CM-100520PUBSTK
50ft.	CM-100509BKBSTK	CM-100509BLBSTK	CM-100509GYBSTK	CM-100509GNBSTK	CM-100509ORBSTK	CM-100509RDBSTK	CM-100509WTBSTK	CM-100509YWBSTK	CM-100509PUBSTK
75ft.	CM-100510BKBSTK	CM-100510BLBSTK	CM-100510GYBSTK	CM-100510GNBSTK	CM-100510ORBSTK	CM-100510RDBSTK	CM-100510WTBSTK	CM-100510YWBSTK	CM-100510PUBSTK
100ft.	CM-100511BKBSTK	CM-100511BLBSTK	CM-100511GYBSTK	CM-100511GNBSTK	CM-100511ORBSTK	CM-100511RDBSTK	CM-100511WTBSTK	CM-100511YWBSTK	CM-100511PUBSTK
125ft.	CM-100543BKBSTK	CM-100543BLBSTK	CM-100543GYBSTK	CM-100543GNBSTK	CM-100543ORBSTK	CM-100543RDBSTK	CM-100543WTBSTK	CM-100543YWBSTK	CM-100543PUBSTK
150ft.	CM-100512BKBSTK	CM-100512BLBSTK	CM-100512GYBSTK	CM-100512GNBSTK	CM-100512ORBSTK	CM-100512RDBSTK	CM-100512WTBSTK	CM-100512YWBSTK	CM-100512PUBSTK
175ft.	CM-100544BKBSTK	CM-100544BLBSTK	CM-100544GYBSTK	CM-100544GNBSTK	CM-100544ORBSTK	CM-100544RDBSTK	CM-100544WTBSTK	CM-100544YWBSTK	CM-100544PUBSTK
200ft.	CM-100515BKBSTK	CM-100515BLBSTK	CM-100515GYBSTK	CM-100515GNBSTK	CM-100515ORBSTK	CM-100515RDBSTK	CM-100515WTBSTK	CM-100515YWBSTK	CM-100515PUBSTK

Specifications

* Information listed represents all cables within this series

Conductor	Material / Size	Bare Copper / 24AWG	
	Material	HDPE	
	Thickness	Nominal: 0.186 mm	
	Diameter	Nominal: 0.96 mm	
	Insulation	Colors	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown
		Unaged Elongation	Min. 300%
		Unaged Tensile Strength	Min. 1.683 Kgf/mm ²
Jacket	Material	Flame Retardant PVC	
	Thickness	Nominal: 0.5 mm	
	Diameter	Nominal: 5.4 mm	
	Color	Assorted Upon Request	
	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%	

Applications

100BASE-T Gigabit Ethernet

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

550MHz Broadband Video

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

Voice, T1, ISDN

Electrical Performance

Dielectric Strength of Insulation		2850 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	102Ω ± 15%		
	1~125MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Max.Attenuation (dB/100 meters)	NEXT (dB), Min.	PSNEXT (dB), Min.
	1 MHz	2.0*	65.3*	62.3*
	4 MHz	4.1*	56.3*	53.3*
	8 MHz	5.8*	51.8*	48.8*
	10 MHz	6.5*	50.3*	47.3*
	16 MHz	8.2*	47.2*	44.2*
	20 MHz	9.3*	45.8*	42.8*
	25 MHz	10.4*	44.3*	41.3*
	31.25 MHz	11.7*	42.9*	39.9*
	62.5 MHz	17.0*	38.4*	35.4*
	100 MHz	22.0*	35.3*	32.3*
	125 MHz	24.9*	34.8*	30.8*

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

