

Cat.5E UTP Non-Booted Cables Series

Technical Data Sheet

CableMAX Model No. **CM-1004XXXXBSTK**

Digi-Key Series: **CM-10045EU**

Length	Black	Blue	Grey	Green	Orange	Red	White	Yellow	Purple
0.5ft.	CM-100416BKBSTK	CM-100416BLBSTK	CM-100416GYBSTK	CM-100416GNBSTK	CM-100416ORBSTK	CM-100416RDBSTK	CM-100416WTBSTK	CM-100416YWBSTK	CM-100416PUBSTK
1ft.	CM-100401BKBSTK	CM-100401BLBSTK	CM-100401GYBSTK	CM-100401GNBSTK	CM-100401ORBSTK	CM-100401RDBSTK	CM-100401WTBSTK	CM-100401YWBSTK	CM-100401PUBSTK
1.5ft.	CM-100417BKBSTK	CM-100417BLBSTK	CM-100417GYBSTK	CM-100417GNBSTK	CM-100417ORBSTK	CM-100417RDBSTK	CM-100417WTBSTK	CM-100417YWBSTK	CM-100417PUBSTK
2ft.	CM-100413BKBSTK	CM-100413BLBSTK	CM-100413GYBSTK	CM-100413GNBSTK	CM-100413ORBSTK	CM-100413RDBSTK	CM-100413WTBSTK	CM-100413YWBSTK	CM-100413PUBSTK
3ft.	CM-100402BKBSTK	CM-100402BLBSTK	CM-100402GYBSTK	CM-100402GNBSTK	CM-100402ORBSTK	CM-100402RDBSTK	CM-100402WTBSTK	CM-100402YWBSTK	CM-100402PUBSTK
4ft.	CM-100400BKBSTK	CM-100400BLBSTK	CM-100400GYBSTK	CM-100400GNBSTK	CM-100400ORBSTK	CM-100400RDBSTK	CM-100400WTBSTK	CM-100400YWBSTK	CM-100400PUBSTK
5ft.	CM-100403BKBSTK	CM-100403BLBSTK	CM-100403GYBSTK	CM-100403GNBSTK	CM-100403ORBSTK	CM-100403RDBSTK	CM-100403WTBSTK	CM-100403YWBSTK	CM-100403PUBSTK
6ft.	CM-100414BKBSTK	CM-100414BLBSTK	CM-100414GYBSTK	CM-100414GNBSTK	CM-100414ORBSTK	CM-100414RDBSTK	CM-100414WTBSTK	CM-100414YWBSTK	CM-100414PUBSTK
7ft.	CM-100404BKBSTK	CM-100404BLBSTK	CM-100404GYBSTK	CM-100404GNBSTK	CM-100404ORBSTK	CM-100404RDBSTK	CM-100404WTBSTK	CM-100404YWBSTK	CM-100404PUBSTK
8ft.	CM-100419BKBSTK	CM-100419BLBSTK	CM-100419GYBSTK	CM-100419GNBSTK	CM-100419ORBSTK	CM-100419RDBSTK	CM-100419WTBSTK	CM-100419YWBSTK	CM-100419PUBSTK
10ft.	CM-100405BKBSTK	CM-100405BLBSTK	CM-100405GYBSTK	CM-100405GNBSTK	CM-100405ORBSTK	CM-100405RDBSTK	CM-100405WTBSTK	CM-100405YWBSTK	CM-100405PUBSTK
12ft.	CM-100474BKBSTK	CM-100474BLBSTK	CM-100474GYBSTK	CM-100474GNBSTK	CM-100474ORBSTK	CM-100474RDBSTK	CM-100474WTBSTK	CM-100474YWBSTK	CM-100474PUBSTK
15ft.	CM-100406BKBSTK	CM-100406BLBSTK	CM-100406GYBSTK	CM-100406GNBSTK	CM-100406ORBSTK	CM-100406RDBSTK	CM-100406WTBSTK	CM-100406YWBSTK	CM-100406PUBSTK
20ft.	CM-100415BKBSTK	CM-100415BLBSTK	CM-100415GYBSTK	CM-100415GNBSTK	CM-100415ORBSTK	CM-100415RDBSTK	CM-100415WTBSTK	CM-100415YWBSTK	CM-100415PUBSTK
25ft.	CM-100407BKBSTK	CM-100407BLBSTK	CM-100407GYBSTK	CM-100407GNBSTK	CM-100407ORBSTK	CM-100407RDBSTK	CM-100407WTBSTK	CM-100407YWBSTK	CM-100407PUBSTK
30ft.	CM-100475BKBSTK	CM-100475BLBSTK	CM-100475GYBSTK	CM-100475GNBSTK	CM-100475ORBSTK	CM-100475RDBSTK	CM-100475WTBSTK	CM-100475YWBSTK	CM-100475PUBSTK
35ft.	CM-100476BKBSTK	CM-100476BLBSTK	CM-100476GYBSTK	CM-100476GNBSTK	CM-100476ORBSTK	CM-100476RDBSTK	CM-100476WTBSTK	CM-100476YWBSTK	CM-100476PUBSTK
40ft.	CM-100477BKBSTK	CM-100477BLBSTK	CM-100477GYBSTK	CM-100477GNBSTK	CM-100477ORBSTK	CM-100477RDBSTK	CM-100477WTBSTK	CM-100477YWBSTK	CM-100477PUBSTK
50ft.	CM-100408BKBSTK	CM-100408BLBSTK	CM-100408GYBSTK	CM-100408GNBSTK	CM-100408ORBSTK	CM-100408RDBSTK	CM-100408WTBSTK	CM-100408YWBSTK	CM-100408PUBSTK
75ft.	CM-100409BKBSTK	CM-100409BLBSTK	CM-100409GYBSTK	CM-100409GNBSTK	CM-100409ORBSTK	CM-100409RDBSTK	CM-100409WTBSTK	CM-100409YWBSTK	CM-100409PUBSTK
100ft.	CM-100410BKBSTK	CM-100410BLBSTK	CM-100410GYBSTK	CM-100410GNBSTK	CM-100410ORBSTK	CM-100410RDBSTK	CM-100410WTBSTK	CM-100410YWBSTK	CM-100410PUBSTK
150ft.	CM-100411BKBSTK	CM-100411BLBSTK	CM-100411GYBSTK	CM-100411GNBSTK	CM-100411ORBSTK	CM-100411RDBSTK	CM-100411WTBSTK	CM-100411YWBSTK	CM-100411PUBSTK
200ft.	CM-100412BKBSTK	CM-100412BLBSTK	CM-100412GYBSTK	CM-100412GNBSTK	CM-100412ORBSTK	CM-100412RDBSTK	CM-100412WTBSTK	CM-100412YWBSTK	CM-100412PUBSTK

Specifications

* Information listed represents all cables within this series

Conductor	Material / Size	Bare Copper / 24AWG
Insulation	Material	HDPE
	Thickness	Nominal: 0.186 mm
	Diameter	Nominal: 0.96 mm
	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

1000BASE-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

