

Cat.6A Shielded Cables (SSTP)

Technical Data Sheet

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

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

Length	Black	Blue	Grey	White	Yellow
1ft.	CM-100851BKBSTK	CM-100851BLBSTK	CM-100851GYBSTK	CM-100851WTBSTK	—
2ft.	CM-100852BKBSTK	CM-100852BLBSTK	CM-100852GYBSTK	CM-100852WTBSTK	—
3ft.	CM-100853BKBSTK	CM-100853BLBSTK	CM-100853GYBSTK	CM-100853WTBSTK	—
4ft.	CM-100854BKBSTK	CM-100854BLBSTK	CM-100854GYBSTK	CM-100854WTBSTK	—
5ft.	CM-100855BKBSTK	CM-100855BLBSTK	CM-100855GYBSTK	CM-100855WTBSTK	—
6ft.	CM-100856BKBSTK	CM-100856BLBSTK	CM-100856GYBSTK	CM-100856WTBSTK	—
7ft.	CM-100857BKBSTK	CM-100857BLBSTK	CM-100857GYBSTK	CM-100857WTBSTK	—
10ft.	CM-100858BKBSTK	CM-100858BLBSTK	CM-100858GYBSTK	CM-100858WTBSTK	—
15ft.	CM-100859BKBSTK	CM-100859BLBSTK	CM-100859GYBSTK	CM-100859WTBSTK	—
20ft.	CM-100860BKBSTK	CM-100860BLBSTK	CM-100860GYBSTK	CM-100860WTBSTK	—
25ft.	CM-100861BKBSTK	CM-100861BLBSTK	CM-100861GYBSTK	CM-100861WTBSTK	—
35ft.	CM-100862BKBSTK	CM-100862BLBSTK	CM-100862GYBSTK	CM-100862WTBSTK	CM-100862YWBSTK
50ft.	CM-100863BKBSTK	CM-100863BLBSTK	CM-100863GYBSTK	—	CM-100863YWBSTK
75ft.	CM-100864BKBSTK	CM-100864BLBSTK	CM-100864GYBSTK	—	—
100ft.	CM-100865BKBSTK	CM-100865BLBSTK	CM-100865GYBSTK	—	—

Specifications

* Information listed represents all cables within this series

Conductor	Material / Size	Bare Copper / 26AWG
Insulation	Material	Foam-Skin PE
	Thickness	Nominal: 0.27 mm
	Diameter	Nominal: 1.08 mm
	Colors	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength	Min. 0.816 Kgf/mm ²
Screen	Material	Aluminum-Mylar Tape & Tinned Copper Braid
Jacket	Material	Flame Retardant PVC
	Thickness	Nominal: 0.5 mm
	Diameter	Nominal: 5.7 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

10GBASE-T Ethernet (IEEE P802.3an) Proposed
 1000BASE-TX Fast Ethernet
 155/622 Mbps ATM
 100VG-AnyLAN
 1.2Gb/s ATM

100 Mbps TP-PMD
 1000BASE-T Gigabit Ethernet
 10BASE-T Ethernet
 4/16 Mbps Token Ring

Electrical Performance

Dielectric Strength of Insulation		1000 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	64kHz	125Ω ± 20%		
	1~500MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Max.Attenuation (dB/100 meters)	NEXT (dB), Min.	PSNEXT (dB), Min.
	1 MHz	2.5*	74.3*	72.3*
	10 MHz	7.1*	59.3*	57.3*
	100 MHz	23.0*	44.3*	42.3*
	200 MHz	33.1*	39.8*	37.8*
	250 MHz	37.3*	38.3*	36.3*
	300 MHz	41.1*	37.1*	35.1*
	400 MHz	48.1*	35.3*	33.3*
	500 MHz	54.3*	33.8*	31.8*

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

