

# Cat.6 Shielded Cross Cables Series

Technical Data Sheet CableMAX Model No. **CM-10082XGYBSTK**

<b>Length</b> 1ft. 3ft. 5ft. 7ft. 10ft. 15ft. 25ft.	<b>Green w/ Grey Wire</b> CM-100821GYBSTK CM-100823GYBSTK CM-100824GYBSTK CM-100825GYBSTK CM-100826GYBSTK CM-100827GYBSTK CM-100828GYBSTK
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## Specifications

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

Conductor	Material / Size	Bare Copper / 26AWG
<b>Insulation</b>	Material	Foam-Skin HDPE
	Thickness	Nominal: 0.27 mm
	Diameter	Nominal: 1.08 mm
	Colors	Blue/White Orange/White Green/White Brown/White
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength	Min. 0.816 Kgf/mm <sup>2</sup>
<b>Screen</b>	Material	Aluminum-Mylar Tape & Tinned Copper Braid
<b>Jacket</b>	Material	Flame Retardant PVC
	Thickness	Nominal: 0.50 mm
	Diameter	Nominal: 5.7 mm
	Color	Assorted Upon Request
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength	Min. 1.407 Kgf/mm <sup>2</sup>
	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

550MHz Broadband Video  
 Voice, T1, ISDN

# Electrical Performance

<b>Dielectric Strength of Insulation</b>		1500 V dc / 2 seconds		
<b>Insulation Resistance Test</b>		Min. 5000 MΩ-Km		
<b>Conductor Resistance</b>		Max. 9.38 Ω/100m at 20°C		
<b>Resistance Unbalance</b>		Max. 2%		
<b>Capacitance Unbalance</b>		Max. 160 pF/100m		
<b>Mutual Capacitance</b>		Max. 5600 pF/100m		
<b>Impedence</b>	772kHz	125Ω ± 20%		
	1~125MHz	100Ω ± 15%		
<b>Attenuation &amp; Near End Cross Talk</b>	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 white	2	green white	3
blue white	1	brown white	4

