# Cat.5E UTP Cross Booted Cables Series

Technical Data Sheet **CableMAX Model No.** CM-1005XXGYBSTK

| Length | Green w/ Grey Wire |
|---|---|
| 1ft. | CM-100521GYBSTK |
| 3ft. | CM-100523GYBSTK |
| 5ft. | CM-100524GYBSTK |
| 7ft. | CM-100525GYBSTK |
| 15ft. | CM-100527GYBSTK |
| 25ft. | CM-100528GYBSTK |
| 50ft. | CM-100529GYBSTK |

## 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 | Max.Attenuation | NEXT | PSNEXT |
| | (MHz) | (dB/100 meters) | (dB), Min. | (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* | 35.4* | 32.3* |
| | 125 MHz | 24.9* | 33.8* | 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 MHZ) ≧ NEXT(0.772)-15LOG10(f MHZ/0.772)dB***

# Configuration

| | |
|---|---|
| orange 2<br>white/orange | green 3<br>white/green |
| blue 1<br>white/blue | brown 4<br>white/brown |