

# Cat.5E Shielded Cross Cables Series

Technical Data Sheet

CableMAX Model No. **CM-1006XXGYBSTK**

Rev 250820

Length	Green w/ Grey Wire
1ft.	CM-100621GYBSTK
3ft.	CM-100623GYBSTK
5ft.	CM-100624GYBSTK
7ft.	CM-100625GYBSTK
10ft.	CM-100626GYBSTK
15ft.	CM-100627GYBSTK
25ft.	CM-100628GYBSTK
50ft.	CM-100629GYBSTK

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

## Specifications

**• Cable Specifications:**

CAT5E F/UTP 4 X 1P[26AWG(7/0.16mm±0.008mm BC)]+MYLAR+D(7/0.12TC)+AL  
CM PVC JACKET OD: 5.6±0.20mm

**• Standard Reference:**

- All Category 5e Requirements as Per ANSI/TIA, ISO/IEC, and CENELEC EN Standards
- ANSI/TIA-5682-D Cat.5e
- ISO/IEC 3rd Edition 11801 Class D
- We Implemented RoHS Compliance for the Requirement of European Union Issued Directive 2011/65/EU

**• Physical characteristic**

- Rated temperature: 75°C
- Installation temperature: -20-60°C
- Operating temperature: -20-75°C
- Min bending radius:15xOD in Operation:10xOD after operation

## Applications

- 1000BASE-T Gigabit Ethernet
- 10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)
- 100 VG - AnyLAN(IEEE802.12)
- 100MHz Broadband Video Voice, T1, ISDN

## Compliance

Compliant with TIA/EIA standard by UL & ETL; RoHS Compliant



# Electrical Performance

CABLE CONSTRUCTION		
Conductor	Material	Stranded Bare Copper
	Nom.O.D (mm)	7/0.16±0.008mm 26AWGx4P
Insulation HDPE	Average Thickness(mm)	0.20
	Insulation Dia.(±0.05mm)	0.87
	Unaged Elongation	Min. 300%
	Unaged Tensile Strength	Min.1.683 Kgf/mm <sup>2</sup>
Code Color	1 Blue/Blue*White	2 Orange/Orange*White
	3 Green/Green*White	4 Brown/Brown*White
Mylar	COVERAGE 100%	OVERLAP25%min
DRAIN	Material	TC
	Size (±0.008mm)	7/0.12
AL	COVERAGE 100%	OVERLAP25%min
Jacket CM PVC	Average Thickness (mm)	0.55
	Outer Dia.(±0.20mm)	5.6
	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%
Marking	YFC FTP CAT.5E 350MHZ PATCH ISO/IEC 11801 & EN 50288 & 3P CONFORMS FOR GIGABIT ETHERNET ▲ 26AWGX4P TYPE CM(UL) E164469-B3	

CHARACTERISTICS	
Dielectric Strength of Insulation	1500 V dc / 1 minute
Insulation Resistance Test	Min. 5000 MΩ·Km
Conductor Resistance	Max. 17.89 Ω/100m at 20°C
Resistance Unbalance	Max. 2%
Capacitance Unbalance	Max. 220 pF/100m

TECHNICAL PERFORMANCE			
TIA Cat 5E Channel Test			
Frequency (MHz)	Insertion Loss	RL Min (dB)	NEXT Min (dB)
1	3.0	17.0	60.0
4	4.5	17.0	53.5
8	6.3	17.0	48.6
10	7.1	17.0	47.0
16	9.1	17.0	43.6
20	10.2	17.0	42.0
25	11.4	16.0	40.3
31.25	12.9	15.1	38.7
62.25	18.6	12.1	33.6
100	24.0	10.0	30.1

Frequency (MHz)	PSNEXT (dB/100m)	ACR-F (dB/100m)	PS ACR-F (dB/100m)	Impedance (Ohms)
1	57.0	57.4	54.4	100±15
4	50.5	45.4	42.4	
8	45.6	39.3	36.3	
10	44.0	37.4	34.4	
16	40.6	33.3	30.3	
20	39.0	31.4	28.4	
25	37.3	29.4	26.4	
31.25	35.7	27.5	24.5	
62.25	30.6	21.5	18.5	
100	37.1	17.4	14.4	

## Configuration

### Cable Cross-Section Structure

