

Cat.6 Shielded Cross Cables Series

Technical Data Sheet

CableMAX Model No. **CM-10082XGYBSTK**

Rev 250821

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

** Information listed represents all cables within this series*

Specifications

• Cable Specifications:

CAT6 SSTP 4 X 1P[26AWG(7/0.16mm±0.008mm BC)]+AL/MYLAR+B(16*5/0.12AL-MG)
CM PVC JACKET OD: 6.0±0.20mm

• Standard Reference:

- All Category 6 Requirements as Per ANSI/TIA, ISO/IEC, and CENELEC EN Standards
- ANSI/TIA-5682-D Cat.6
- ISO/IEC 3rd Edition 11801 Class E
- 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)
- 250MHz Broadband Video Voice, T1, ISDN

Compliance

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



Electrical Performance

CableMAX is a part of the Coolgear family.

| CABLE CONSTRUCTION | | |
|--------------------|--|--|
| Conductor | Material | Stranded Bare Copper |
| | Nom.O.D (mm) | 7/0.16±0.008mm 26AWGx4P |
| Insulation FMPE | Average Thickness(mm) | 0.28 |
| | Insulation Dia.(±0.05mm) | 1.02 |
| | Unaged Elongation | N/A |
| | Unaged Tensile Strength | N/A |
| Code Color | 1 Blue/White | 2 Orange/White |
| | 3 Green/White | 4 Brown/White |
| AL/Mylar | COVERAGE 100% | OVERLAP25%min |
| BRAID | Material | AL-MG |
| | Size (±0.008mm) | 16*5/0.12 |
| Jacket CM PVC | Average Thickness (mm) | 0.55 |
| | Outer Dia.(±0.20mm) | 6.0 |
| | 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% |
| Marking | YFC CAT.6 26AWGX4PR SSTP IEC 60332.1 PATCH CABLE- CONFORM TO ISO/IEC 11801 & EN 50288 & ANSI/TIA-568.2-D 3P/ETL VERIFIED ▲ CM(UL) E164469-B3 | |

| 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 | |

| CHARACTERISTICS | |
|-----------------------------------|---------------------------|
| Dielectric Strength of Insulation | 1500 V dc / 1 minute |
| Insulation Resistance Test | Min. 500 MΩ·Km |
| Conductor Resistance | Max. 17.89 Ω/100m at 20°C |
| Resistance Unbalance | Max. 2% |
| Capacitance Unbalance | Max. 220 pF/100m |

Configuration

Cable Cross-Section Structure

