

Cat5E Plenum Cable

1000', Easy-Pull Box

Cat5E Plenum

Overview

High-quality Telect Cat5E cabling is available in the same colors as the patent pending Telect Media Gateway color and number labeling system, greatly simplifying service delivery within the application.

Here's how using the Telect Media Gateway color-coding system (panel ports, jacks and cabling) helps streamline installation and usage:

Once the installer has determined outlet locations and type (1-, 3- or 4-port), cables can be bundled based on the color-coding system. This reduces the number of times labeling will be required – instead of labeling each individual cable, the installer can simply label the bundle with the number that corresponds with the outlet.

This also helps when it's time to terminate the cable in the Media Gateway chassis, since bundles can be sorted numerically and terminated to the appropriate module.

Another advantage for the more advanced installer is to eliminate labeling altogether – simply bundle and pull. When you terminate the panel, terminate the cable bundles in any order. When you terminate the outlets, place appropriate numeric ID plates at the outlet that corresponds to the location in the panel.

Ordering Information

Description	Part Number
Plenum Cable, Cat5E, 1000ft, Blue	MG-PLNM-BL-1000-A
Plenum Cable, Cat5E, 1000ft, Brown	MG-PLNM-BN-1000-A
Plenum Cable, Cat5E, 1000ft, Green	MG-PLNM-GN-1000-A
Plenum Cable, Cat5E, 1000ft, Orange	MG-PLNM-NG-1000-A

Standard Compliances

- All Category 5e Requirements as Per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards:
 - ANSI/TIA/EIA 568-B.2 Cat.5e
 - 2nd Edition ISO/IEC 11801 Class D
 - CENELEC EN 50173-1
 - IEC 61156-5, CENELEC EN 50288-3-1 Horizontal Cable
- Flame Retardancy is Verified According to IEC 60332-1
- RoHS Compliance for the Requirement of European Union Issued Directive 2002/95/EC

Primary Benefits

- The Telect Media Gateway color and number labeling system (patent pending) is the only fixed labeling system that is repeatable regardless of the size of the installation
- Color-coding provides the easiest platform for maintenance and ongoing use by end users
- Repeatable architectures offer service providers a simple, guaranteed way to reduce installation and turn-up time
- Simplified installation saves time and money
- Simplifies troubleshooting by reducing the number of cables of any one color

Features

- All patch cords meet all relevant standards for performance and durability
- Available colors include blue, orange, green and brown



Approvals

- ETL Listed Type CMP for Plenum
- ETL /3P Certified ANSI/TIA/EIA-568-B.2 Category 5e testing safety/performance requirements.

Applications

- 1000BASE-T Gigabit Ethernet
- 10BASE-T, 100BASE-T Fast Ethernet (IEEE 802.3)
- 100 VG - AnyLAN(IEEE802.12), 155/622 Mbps ATM
- 550MHz Broadband Video
- 4-/16-Mbps Token Ring

Cat5E Plenum Cable

1000', Easy-Pull Box

Cat5E Plenum

Construction and Characteristics

Conductor	Material / Size	Bare Copper / 24 AWG
	Construction	1/0.508 ± 0.03 mm
Insulation	Material	FEP
	Thickness	Average: 0.176 mm Min. at any point: 0.116
	Diameter	0.86 ± 0.06 mm
	Colors	Blue/White-Blue Orange/White-Orange
		Green/White-Green Brown/White-Brown
	Elongation	Min. 300%
Tensile Strength	Min. 1.682 Kg/mm ²	
Sheath	Material	PVC
	Thickness	Average: 0.5 mm
	Diameter	5.2±0.3 mm
	Color	Assorted upon request
	Elongation	Min. 100%
	Tensile Strength	Min. 1.407 Kg/mm ²
	Aging at 100 °C for 168Hrs	Min. elongation retention:50% Min. tensile strength retention:75%
	Flame Test	According to UL NFPZ-262, CSA FT-6, standard flame test



Electric Performances

Spark Test	2000 ± 250 V ac
Dielectric Strength	2500 V dc / 3 seconds
Insulation Resistance Test	Min. 150 MΩ/Km
Conductor Resistance	Max.9.38Ω/100m at 20°C
Resistance Unbalance	Max. 5%
Capacitance Unbalance	Max. 330 pF/100m
Mutual Capacitance	Max. 5600 pF/100m

Performance

Impedence	722kHz	102Ω ± 15%		
	1~350MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Attenuation (dB/100M), Max	NEXT (dB), Min	Power Sum (dB), Min
	1MHz	2.0	68.3	66.3
	4MHz	4.1	59.3	57.3
	8MHz	5.8	54.8	52.8
	10MHz	6.6	53.3	51.3
	16MHz	8.2	50.3	48.3
	20MHz	9.3	48.8	46.8
	25MHz	10.4	47.3	45.3
	31.25MHz	11.7	45.9	43.9
	62.5MHz	17	41.4	39.4
	100MHz	22	38.3	36.3
	155MHz	28.1	35.5	33.5
	200MHz	32.4	33.8	31.8
	240MHz	36	32.6	30.5
	300MHz	41	31.2	29.2
350MHz	44.9	30.1	28.1	