

PowerMAX400™ Cat.6 4 Pair Unshielded Solid Cable PVC



Standards

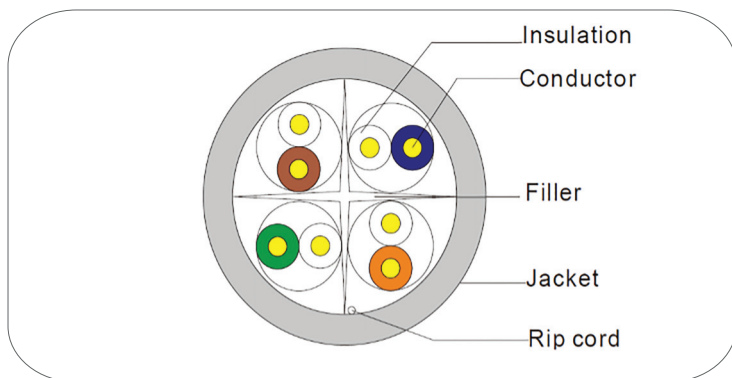
- UL, ETL Verified
- ISO/IEC11801 2nd edition
- ANSI/TIA/EIA Cabling Standard 568-C.2
- CENELEC EN 50173

Applications

- Voice; T1; ISDN
- 10BASE-T (IEEE 802.3)
- 16Mbps Token Ring (IEEE802.5)
- 100VG-AnyLAN (IEEE802.12)
- 100BASE-T Ethernet (IEEE802.3)
- 155/622Mbps 1.2/2.4 Gbps ATM
- 1000Mbps Gigabit Ethernet
- 550MHz Broadband Video

Compliance Approvals

- ETL Verified to ANSI/TIA-568-C.2 Category 6 - No. 11012547CRT-001
- 3P Certified ANSI/TIA-568-C.2 Category 6 Performance requirements



Ordering Information

Part No.	Description	Cable Rating	Jacket	Std Pkg Qty
1101-04004	Cat.6 4P UTP 23 AWG Solid PVC Gray	CM	PVC	305m Reel

Note: Specifications may be subject to change without any notice or obligation on the part of the manufacturer.

Specifications

Wire Internal / External Characteristics

Conductor	Material / Size	Bare Copper / 23AWG
Insulation	Material	HDPE
	Thickness	Nominal: 0.226 mm
	Diameter	Nominal: 1.011 mm
	Colors	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown
	Unaged Elongation	Min. 300%
	Unaged Tensile Strength	Min. 1.683 Kg/mm ²
Jacket	Material	Flame Retardant PVC
	Thickness	Nominal: 0.5 mm
	Diameter	Nominal: 6.1 mm
	Color	Assorted upon request
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength	Min. 1.407 Kg/mm ²
Aging at 100°C for 168Hrs		Min. elongation retention:50%
		Min. tensile strength retention:85%

Electrical Characteristics

Dielectric Strength of Insulation	2500 V dc / 2 seconds	
Insulation Resistance Test	Min. 5000 MΩ·Km	
Conductor Resistance	Max. 7.32 Ω/100m at 20°C	
Resistance Unbalance	Max. 2%	
Capacitance Unbalance	Max. 160 pF/100m	
Mutual Capacitance	Max. 5600 pF/100m	
Impedance	1~100MHz	100Ω ± 15%
	100~250MHz	100Ω ± 22%

Transmission Performance

Frequency (MHz)	Max. Attenuation (dB/100 meters)	NEXT (dB), Min.	PSNEXT (dB), Min.
1 MHz	1.9*	65.0*	62.0*
4 MHz	3.5*	64.1*	61.8*
10 MHz	5.5*	57.8*	55.5*
16 MHz	7.0*	54.6*	52.2*
20 MHz	7.9*	53.1*	50.7*
31.25 MHz	10.0*	50.0*	47.5*
62.5 MHz	14.4*	45.1*	42.7*
100 MHz	18.6*	41.8*	39.3*
200MHz	27.4*	36.9*	34.3*
250MHz	31.1*	35.3*	32.7*