



Product Specification

Category 6 UTP Cable, 23AWG×4P, TYPE CM

STANDARD COMPLIANCES

All Proposed Category 6 requirements as per ANSI/TIA, ISO/IEC, and CENELEC EN Standards.

ANSI/TIA-568-C.2 Cat.6

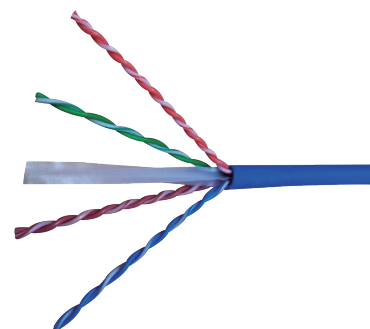
2nd Edition ISO/IEC 11801 Class E

CENELEC EN 50173-1

2nd Edition IEC 61156-5, CENELEC EN 50288-6-1 for Horizontal Cable

Flame Retardancy is verified according to IEC 60332-1-2.

Our products always comply with RoHS and REACH Directives.



CONSTRUCTION & 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 Kgf/mm²
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 Kgf/mm²
	Aging at 100°C for 168Hrs	Min. elongation retention:50%
		Min. tensile strength retention:85%
Marking		FIBRACK GIGACABLE CAT.6 U/UTP 23AWGX4P CM 60 C ETL VERIFIED TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN50288-6-2 & IEC 60332-1-2 XXXM
(PS): " + " Mould separate		

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APPROVALS

UL/cUL Listed

ETL/3P Certified ANSI/TIA-568-C.2 Category 6 Testing Safety/Performance requirements.



APPLICATIONS

1000BASE-TX Gigabit Ethernet
10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)
100 VG - AnyLAN (IEEE802.12), 155/622 Mbps ATM

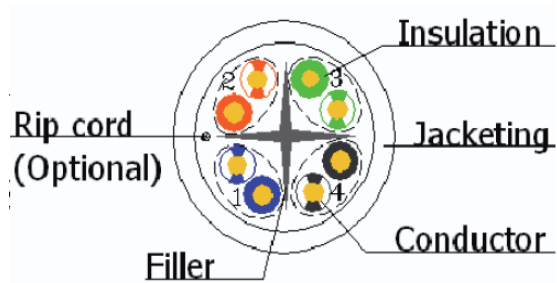
550MHz Broadband Video
Voice, T1, ISDN

ELECTRICAL PERFORMANCES

Dielectric Strength of Insulation		1200 V dc or 850 V ac / 2 seconds		
Insulation Resistance Test		Min. 5000 M Ω /m		
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		
Impedance	1~100MHz	100 Ω $\pm$ 15%		
	100~250MHz	100 Ω $\pm$ 22%		
Attenuation & Near End Cross Talk	Frequency	Max.Attenuation	NEXT	PSNEXT
	(MHz)	(dB/100 meters)	(dB), Min.	(dB), Min.
	1 MHz	2.0*	74.3*	72.3*
	4 MHz	3.8*	65.3*	63.3*
	10 MHz	6.0*	59.3*	57.3*
	16 MHz	7.6*	56.2*	54.2*
	20 MHz	8.5*	54.8*	52.8*
	31.25 MHz	10.7*	51.9*	49.9*
	62.5 MHz	15.4*	47.4*	45.4*
	100 MHz	19.8*	44.3*	42.3*
	200MHz	29.0*	39.8*	37.8*
	250MHz	32.8*	38.3*	36.3*
The asterisked (*) value are for information only. The minimum Next coupling loss for any pair combination at room temperature is to be greater than the value determined using the formula: NEXT(f MHz) $\geq$ NEXT(0.772)-15LOG10(f MHz/0.772)dB				

CONFIGURATION

orange 2	green 3
white/orange	white/green
blue 1	brown 4
white/blue	white/brown



ORDER INFORMATION

Part NO.	Part NO. 21804UCM
Description.	FIBRACK GIGACABLE CAT 6 U/UTP Cable, 23AWG×4P, TYPE CM
	21: Cat 6
	8: LAN Cable
	04: Jacket gray color 05: Jacket blue color
	U: U/UTP
	CM: Jacket, TYPE CM