COMMODITY CABLES, INC.

Category 6 UTP STRANDED CABLE

PART NO. 6CMSTRRO5M

DESCRIPTION:
Category 6 cabling solution supports the operation of 1000 BASE-TX over 100 meters and are qualified for frequency up to 500 MHz.
Marking: CAT.6 UTP PATCH ETL/3P VERIFIED TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-6-2 & IEC 60332-1-2 24AWGX4P CM(UL) c(UL) E 164469-XX.

APPLICATION:
100BASE-TX Gigabit Ethernet.
550MHz Broadband Video.
10BASE-T, 100BASE-TXFast Ethernet (IEEE 802.3).
Voice, T1, ISDN.
100 VG-AnyLan (IEEE802.12), 155/622 Mbps ATM.

STANDARD COMPLIANCES:
All Proposed Category 6 requirements as per ANSI/TIA, ISO/IEC, and CENELEC EN Standards.
ANSI/TIA-568-C.2 Cat.6.
ISO/IEC 2nd Edition 11801 Class E
CENELEC EN 50173-1.
CENELEC EN 50288-6-2, IEC 61156-6 FOR PATCH CABLE.
Flame Retardancy is verified according to IEC 60332-1-2.
We implemented RoHS compliance for the requirement of European Union issued Directive 2002/95/EC.

COLORS

X= Black, blue, Green, Gray, Orange, Red, White, Yellow, Purple

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ELECTRICAL PERFORMANCES

Dielectric Strength of Insulation		2500 V dc/2 seconds		
Insulation Resistance Test		Min. 5000MΩ.Km		
Conductor Resistance		Max. 9.38Ω/100m at 20°C		
Resistance Unbalance		Max. 2%		
Capacitance Unbalance		Max. 160 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	772kHz	125Ω ± 20%		
	1~250MHz	100Ω ± 15%		
	Frequency	Max. Attenuation	NEXT	PSNEXT
	(MHz)	(dB/100meters)	(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*
	150 MHz	24.9*	41.4*	39.4*
	200 MHz	29.0*	39.8*	37.8*
	250 MHz	32.8*	38.3*	36.3*

The asterisked (*) value are for infomation 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) ≥ NEXT(0.772)-15LOG10(f MHZ/0.772)dB

*All values in this specification are nominal and are subjective to tolerances of +/- 10 to 15%.
It is the sole responsibility of the user to have the most current specification. Specifications are subject to change without notice*