DYNAMIX™
CERTIFIED CABLING SYSTEM

Category 6 UTP Horizontal Cable 23AWG×4P, PE (Outdoor)

PRODUCT SPECIFICATION

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 50288-6-1, IEC 61156-5 for horizontal cable
UL444
Flame rtardancy is verified according to UL1581
We implemented RoHS compliance for the requirement of European Union issued Directive 2002/95/EC.

CONSTRUCTION & CHARACTERISTICS:

Conductor	Material / Size	Bare Copper / 23 AWG
Insulation	Material	HDPE
	Thickness	Nominal : 0.22 mm
	Diameter	Nominal : 1.00 mm
	Colors	Blue/White-Blue Orange/White-Orange
		Green/White-Green Brown/White-Brown
	Unaged Elongation	Min. 300 %
	Tensile Strength	Min. 1.682 Kgf/mm²
Jacket	Material	LDPE
	Thickness	Nominal : 0.50 mm
	Diameter	6.5 ± 0.3 mm
	Color	Black
	Unaged Elongation	Min. 350%
Wrap	Material	cotton paper
Marking		CAT.6 UTP 23AWGX4P INSTALLATION CONFORM TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-6-1 & IEC 60332-1-2 [XXXXXXM]
		or as customer request.
“十” Mould separate		

APPROVALS:

• Conform to ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-6-1 & IEC 60332-1-2 [XXXXXXM]

APPLICATIONS:

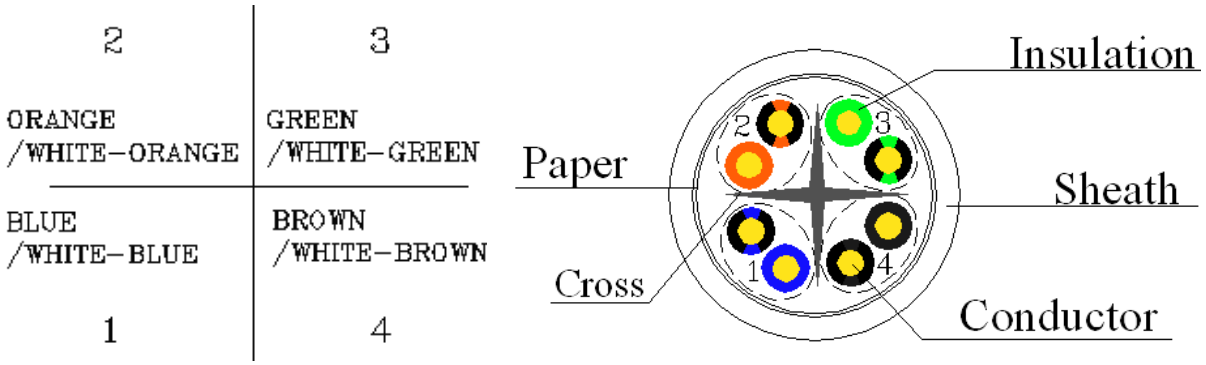
• 1000BASE-Tx Gigabit Ethernet
• 10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3u)
• 100 VG - AnyLAN(IEEE802.12), 155/622 Mbps ATM
• 550 MHz Broadband Video
• Voice, T1, ISDN

ELECTRICAL PERFORMANCES:

Spark Test		2000 ± 250 V ac		
Dielectric Strength		2500 V dc / 3 seconds		
Insulation Resistance Test		Min. 150 MΩ/Km		
Conductor Resistance		Max.9.38 Ω/100m at 20℃		
Resistance Unbalance		Max. 2%		
Capacitance Unbalance		Max. 160 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	64kHz	125Ω ± 20%		
	1~250MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Attenuation (dB/100 meters at 20℃), Max.	NEXT (dB), Min.	Power Sum (dB), Min.
	1MHz	– –	66.0*	64.0*
	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	15.5*	47.4*	45.4*
	100 MHz	19.9*	44.3*	42.3*
	150 MHz	25.3*	41.4*	39.4*
	200MHz	29.2*	39.8*	37.8*
	250MHz	33.0*	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) ≥ NEXT(0.772)-15LOG10(f MHZ/0.772)dB

CONFIGURATION:



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