

Product Specification

Category 6A UTP Patch Cable, 24AWGx4P, PVC

STANDARD COMPLIANCES

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

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

ISO/IEC 2nd Edition 11801 Class EA

CENELEC EN 50173-1, CENELEC EN 50288-10-2, 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

CONSTRUCTION & CHARACTERISTICS

Conductor	Material / Size	Bare Copper / 24AWG	
Insulation	Material	HDPE	
	Thickness	Nominal: 0.20 mm	
	Diameter	Nominal: 1.0 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/mm ²	
Jacket	Material	Flame Retardant PVC	
	Thickness	Nominal: 0.65 mm	
	Diameter	Nominal: 7.5 mm	
	Color	Assorted upon request	
	Unaged Elongation	Min. 100%	
	Unaged Tensile Strength	Min. 1.407 Kgf/mm ²	
	Aging at 100°C for 168Hrs	Min. elongation retention: 50%	
Min. tensile strength retention: 75%			
Marking	YFC CAT.6A UTP PATCH CONFORM TO ANSI/TIA-568-C.2 24AWGX4P CM(UL) c(UL) E164469-XX		
	or as customer request.		

NOTE: “+”Mould separate

APPROVALS

UL/cUL Listed



APPLICATIONS

10GBASE-T Ethernet	100BASE-TX Fast Ethernet
1000BASE-TX Gigabit Ethernet	10BASE-TX Ethernet
ATM CB1G	155/622 Mbps ATM
1000BASE-T Gigabit Ethernet	100 Mbps TP-PMD
100VG-AnyLAN	4/16 Mbps Token Ring

Product Specification

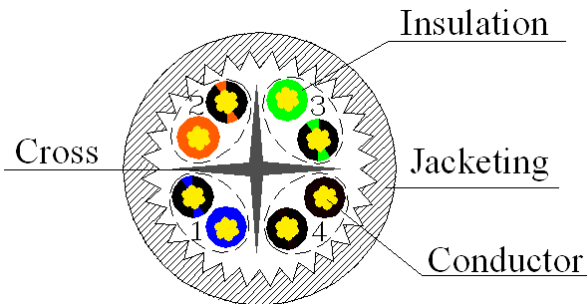
ELECTRICAL PERFORMANCES

Dielectric Strength of Insulation		2500 V dc / 2 seconds		
Insulation Resistance Test		Min. 5000 MΩ·Km		
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	64kHz	125Ω ± 20%		
	1~500MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Max.Attenuation (dB/100 meters)	NEXT (dB), Min	PSNEXT (dB), Min
	1 MHz	2.5*	74.3*	72.3*
	10 MHz	7.1*	59.3*	57.3*
	100 MHz	23.0*	44.3*	42.3*
	200 MHz	33.1*	39.8*	37.8*
	250 MHz	37.3*	38.3*	36.3*
	300 MHz	41.1*	37.1*	35.1*
	400 MHz	51.2*	35.3*	33.3*
	500 MHz	54.3*	33.8*	31.8*

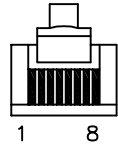
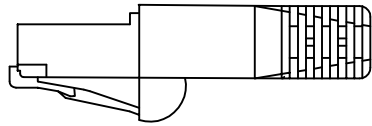
The asterisked (*) value are for information only. The minimum Next coupling loss for any pair combination at room temperature is to be greater than the value determined using the formula:
 $NEXT \geq 31 - 50 \log_{10}(f \text{ MHz} / 330) \text{ dB}$

CONFIGURATION

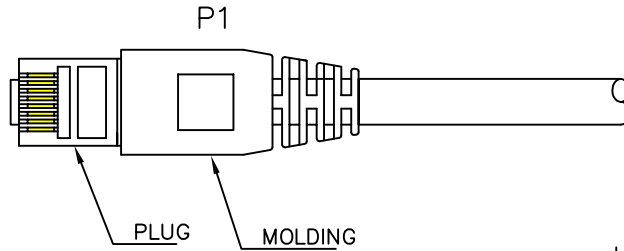
orange 2	green 3
white/orange	white/green
blue 1	brown 4
white/blue	white/brown



DATE	REV	DESCRIPTION	BY	CHKD



MATING VIEW

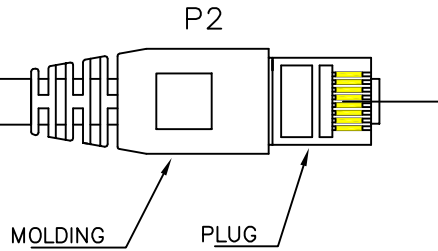


P1

PLUG

MOLDING

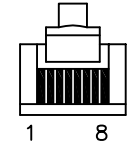
LENG



P2

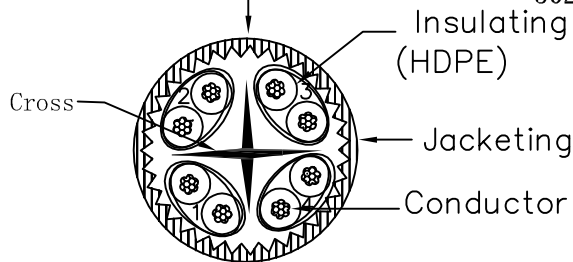
MOLDING

PLUG



MATING VIEW

Marking: <LP556> YFC CAT6A UTP 10 GIGABIT ETHERNETPATCH CABLE ISO/IEC 11801 & EN 50288 & TIA/EIA-568-B.2 & IEC 332.1 24AWGX4P TYPE CM (UL) C(UL) CMH E164469-F3



Cross

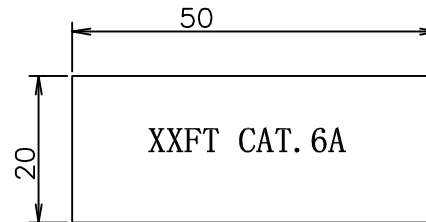
Insulating (HDPE)

Jacketing

Conductor

Conductor	Bare Copper 24AWG 7/0.196 ± 0.015mm
Insulation	Thickness: MIN at any point: 0.20mm MAX AVG: 0.25mm Diameter: 1.05 ± 0.05mm
Jacketing	PVC Thickness: MIN at any point: 0.50mm MAX AVG: 0.60mm Diameter: 7.0 ± 0.15mm

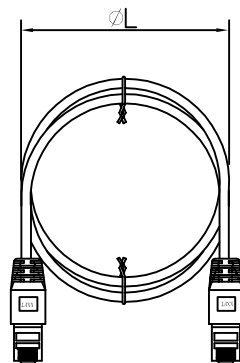
orange 2	green 3
white/orange	white/green
blue 1	brown 4
white/blue	white/brown



LABEL

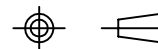
PA/R	P1(T568B)	WIRE	P2(T568B)
1	1	WHT/ORG	1
	2	ORG	2
2	3	WHT/GRN	3
	6	GRN	6
3	4	BLU	4
	5	WHT/BLU	5
4	7	WHT/BRN	7
	8	BRN	8

WIRE	CAT. 6A UTP STR 24AWG*4P
PLUG	YU-02
LENGTH	XXFT
WIRE COLOR	XX
Gold plating	50U"



Unless specified on the drawing, tolerances are per the follows:
 . ± 1
 .X ± 0.2
 .XX ± 0.05

3RD



DRAW.NO	YU-02	ITEM	CAT. 6A UTP STR 24AWG*4P		
DEPARTMENT		DRAW	Zhongyang Wu	DATE	2007/12/14
SCALE		CHECKER		DATE	
UNIT	MM	APPROVAL		DATE	