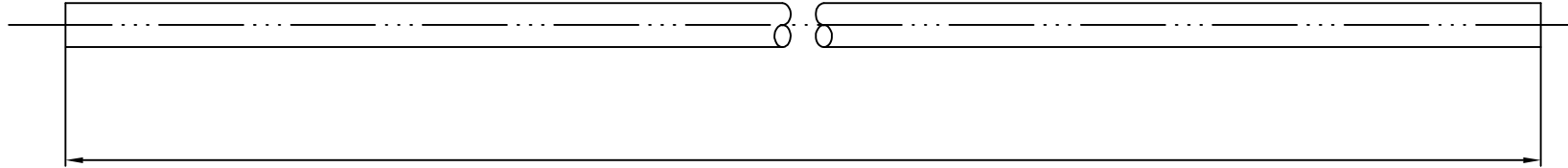
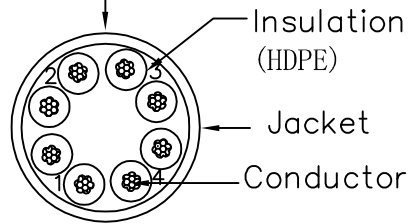


DATE	REV	DESCRIPTION	BY	CHKD
07/22	A/0	NEW	CAOWEN	YZG



Marking: ACT CATEGORY 5E UTP PATCH CABLE ETL/3P VERIFIED TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-3-2 & IEC 60332-1-2 ▲ 24AWGX4P (UL) c(UL)CMH E164469-XX LEADFREE EN71 15000.001-XXXXXX XXXM



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

Item no.	Length	Colour	PACKING
EP100H	100M	IVORY	100mtr roll
EP550H	100M	RED	100mtr roll
EP560H	100M	BLUE	100mtr roll
EP570H	100M	GREEN	100mtr roll
EP580H	100M	YELLOW	100mtr roll
EP590H	100M	BLACK	100mtr roll
EP600H	100M	GREY	100mtr roll
EP305B	305M	IVORY	ACT box
EP355B	305M	RED	ACT box
EP356B	305M	BLUE	ACT box
EP357B	305M	GREEN	ACT box
EP358B	305M	YELLOW	ACT box
EP359B	305M	BLACK	ACT box
EP360B	305M	GREY	ACT box
EP500A	500M	IVORY	Reel

Conductor	Bare Copper 24AWG	
Insulation	Thickness:MIN at any point:0.15mm MAX AVG:0.25mm Diameter:0.98±0.06mm	
Jacket	PVC	Thickness:MIN at any point:0.42mm MAX AVG:0.48mm Diameter:5.4±0.2mm

Wire	CAT. 5E UTP 24AWG*4P
Length	XXM
Wire color	XX

Unless specified on the drawing, tolerance are per the follows:

. ± 1
.X ± 0.2
.XX ± 0.05

3RD



DRAW.NO	00753	ITEM	CAT. 5E UTP 24AWG*4P		
DEPARTMENT	LAN DEP	DRAW	CAOWEN	DATE	2010/07/22
SCALE		CHECKER	YZG	APPROVAL	
UNIT	MM	SHEET	1	OF	1

Product Specification

STANDARD COMPLIANCES:

All Category 5e Requirements as Per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards:

ANSI/TIA/EIA 568-B.2 Cat.5e

2nd Edition ISO/IEC 11801 Class D

CENELEC EN 50173-1

IEC 61156-6,2nd Edition CENELEC EN 50288-3-2 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 / 24 AWG
Insulation	Material	HDPE
	Thickness	Normal Avg.: 0.186 mm
	Diameter	Normal : 0.96 mm
	Colors	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown
	Elongation	Min. 300%
	Tensile Strength	Min. 1.683 Kg/mm ²
Sheath	Material	PVC
	Thickness	Average: 0.50 mm
	Diameter	5.6±0.3 mm
	Elongation	Min. 100%
	Tensile Strength	Min. 1.407 Kg/mm ²
	Aging at 100°C for 168Hrs	Min. elongation retention:50% Min. tensile strength retention:75%
Marking		ACT CAT.5E UTP PATCH CABLE ETL VERIFIED to TIA/EIA-568-B.2 - ISO/IEC 11801 ED.2 & EN 50288-3-2 & IEC 60332-1 3P VERIFIED - 24AWGx4P TYPE CM (UL) c(UL) E164469
		or as customer request.
Flame Test		Burning five times, every time is less than 60 second and paper flag can't be burned.

APPROVAL:

- UL/cUL Listed & 3P Certified ANSI/TIA/EIA-568-B.2 Category 5e testing performance requirements.

APPLICATIONS:

- 1000BASE-T Gigabit Ethernet
- 10BASE-T, 100BASE-T Fast Ethernet (IEEE 802.3)
- 100 VG - AnyLAN(IEEE802.12), 155/622 Mbps ATM
- 550MHz 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.9.38Ω/100m at 20°C		
Resistance Unbalance		Max. 5%		
Capacitance Unbalance		Max. 330 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	722kHz	102Ω ± 15%		
	1~125MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Attenuation (dB/100M at 20°C), Max	NEXT (dB), Min	Power Sum (dB),Min
	722kHz	--	67.0*	64.0*
	1MHz	--	65.0*	62.0*
	4 MHz	4.9*	56.0*	53.0*
	8 MHz	7.0*	51.0*	48.0*
	10 MHz	7.8*	50.0*	47.0*
	16 MHz	9.8*	47.0*	44.0*
	20 MHz	11.1*	45.0*	42.0*
	25 MHz	12.5*	44.0*	41.0*
	31.25 MHz	14.0*	42.0*	39.0*
	62.5 MHz	20.4*	38.0*	35.0*
	100 MHz	26.4*	35.0*	32.0*
	125 MHz	30.0*	34.0*	31.0*

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:

$$\text{NEXT}(f \text{ MHZ}) \geq \text{NEXT}(0.772) - 15 \text{LOG}_{10}(f \text{ MHZ}/0.772)$$

CONFIGURATION:

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

