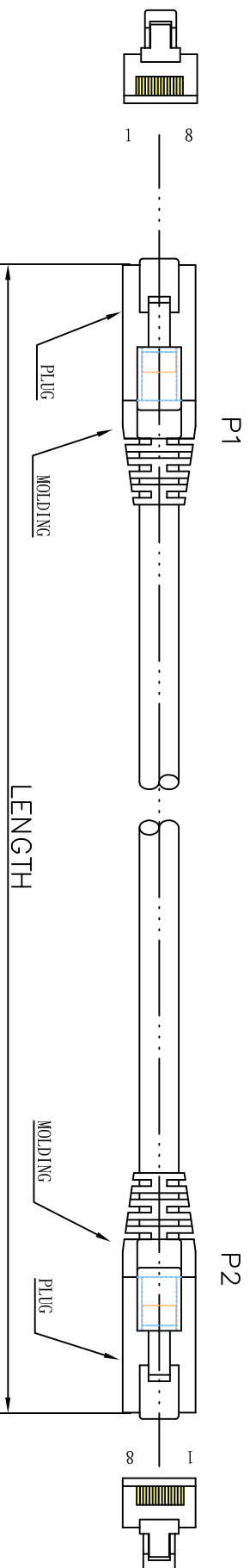
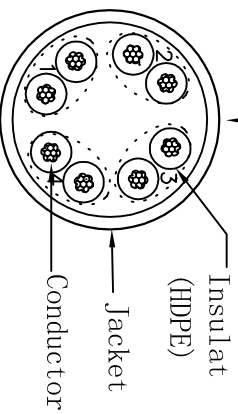


ACT

DATE	REV	DESCRIPTION	BY	CHKD
2/2	A/0	NEW	WZY	YZG
2/3	A/1	CHANGE:	WZY	YZG



MARKING ACT UTP CATEGORY 6 COMPONENT LEVEL PATCHCABLE 4X2XAWG#24 ISO/IEC 11801 & EN 50288 & TIA/EIA-568-B.2-1 ETL 3P
 VERIFIED FOR GIGABIT ETHERNET TYPE CM (UL) CMH E164469-F3 LEADFREE EN71 15000.001



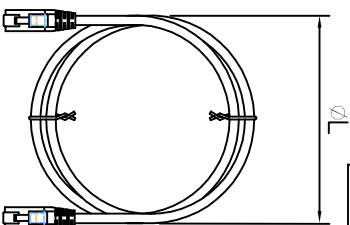
orange 2	green 3
white/orange	white/green
blue 1	brown 4
white/blue	white/brown

Conductor	Bare Copper 24AWG 7/0.196±0.015mm
Insulation	Thickness:MIN at any point:0.15mm MAX AVG:0.25mm
	Diameter:1.04±0.06mm
Jacket	Thickness:MIN at any point:0.50mm MAX AVG:0.58mm
	Diameter:5.9±0.15mm
	PVC

ITEM	Colour	RAL no (LEADER)
IK8400 IK8401IK5802 IK5803	IVORY	RAL 1015
IK8405 IK8407 IK8410 IK8451	RED	RAL 3031
IK8500 IK8501IK8502IK8503	RED	RAL 3031
IK8505 IK8507IK8510 IK8551	RED	RAL 3031
IK8800 IK8801IK8802 IK8803	YELLOW	RAL 1023
IK8805 IK8807IK8810 IK8851	YELLOW	RAL 1023
IK8600 IK8601 IK8602 IK8603	BLUE	RAL 5012
IK8605 IK8607IK8610 IK8651	BLUE	RAL 5012
IK8700 IK8701 IK8702IK8703	GREEN	RAL 6016
IK8705 IK8707IK8710 IK8751	GREEN	RAL 6016

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

WIRE	CAT6 UTP 24AWG*4P
PLUG	YU-28
LENGTH	0.5m-10m
COLOR	SEE ①



Component level test

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

± 1	
± 0.2	
± 0.05	



DRAW. NO	00234	ITEM	SEE ①
DEPARTMENT	R&D	DRAW	WZY
SCALE		CHECKER	
UNIT	MM	APPROVAL	
		DATE	09/2/4



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 50288-6-2, 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: 0.20mm
	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: 0.50 mm
	Diameter	Nominal: 6.4 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	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) E164469-XX	
	or as customer request.	
(PS): " + " Mould separate		

APPROVALS

UL/cUL Listed

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



Intertek

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		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	772kHz	125Ω ± 20%		
	1~250MHz	100Ω ± 15%		
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*
	150 MHz	24.9*	41.4*	39.4*
	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:

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

CONFIGURATION

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

