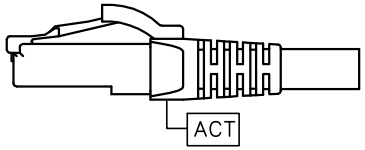
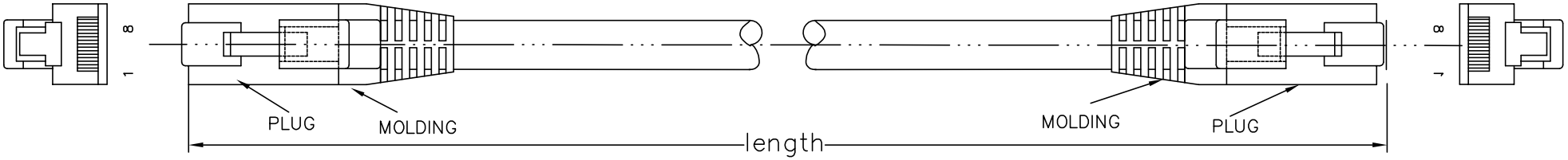
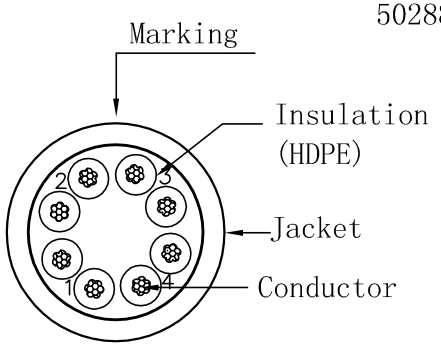
DATE	REV	DESCRIPTION	BY	CHKD
04/07	A/0	NEW	XHW	YZG





Marking:ACT 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 LEADFREE EN71 15000.001



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

ITEM / Color / Length	IV	GY	RD	BU	GN	YL	BK	OR	BN	PL	PK
0.5M	IS8400	IS8000	IS8500	IS8600	IS8700	IS8800	IS8900	IS1500	IS1600	IS1700	IS1800
1.0M	IS8401	IS8001	IS8501	IS8601	IS8701	IS8801	IS8901	IS1501	IS1601	IS1701	IS1801
1.5M	IS8451	IS8051	IS8551	IS8651	IS8751	IS8851	IS8951	IS1551	IS1651	IS1751	IS1851
2.0M	IS8402	IS8002	IS8502	IS8602	IS8702	IS8802	IS8902	IS1502	IS1602	IS1702	IS1802
3.0M	IS8403	IS8003	IS8503	IS8603	IS8703	IS8803	IS8903	IS1503	IS1603	IS1703	IS1803
5.0M	IS8405	IS8005	IS8505	IS8605	IS8705	IS8805	IS8905	IS1505	IS1605	IS1705	IS1805
7.0M	IS8407	IS8007	IS8507	IS8607	IS8707	IS8807	IS8907	IS1507	IS1607	IS1707	IS1807
10.0M	IS8410	IS8010	IS8510	IS8610	IS8710	IS8810	IS8910	IS1510	IS1610	IS1710	IS1810
15.0M	IS8415	IS8015	IS8515	IS8615	IS8715	IS8815	IS8915	IS1515	IS1615	IS1715	IS1815
20.0M	IS8420	IS8020	IS8520	IS8620	IS8720	IS8820	IS8920	IS1520	IS1620	IS1720	IS1820

PA/R	PINOUT 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

Conductor		Bare Copper 24AWG
Insulation		Thickness:MIN at any point:0.15mm MAX AVG:0.25mm Diameter:1.03±0.06mm
Jacket	PVC	Thickness:MIN at any point:0.46mm MAX AVG:0.54mm Diameter:5.9±0.15mm

WIRE	CAT.6 UTP STR 24AWG*4P
PLUG	YU-28 8P8C 50U"
Length	XXM
WIRE COLOR	XX

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

.	± 1
.X	± 0.2
.XX	± 0.05

3RD

DRAW.NO	00704	ITEM	CAT.6 UTP STR 24AWG*4P		
DEPARTMENT	R&D	DRAW	XHW	DATE	2010/04/07
SCALE		CHECKER	YZG	DATE	2010/04/07
UNIT	MM	APPROVAL		DATE	

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/mm²
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/mm²
	Aging at 100℃ 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

Category 6 UTP Patch Cable, 24AWG×4P, PVC

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℃		
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 MHZ) ≧ NEXT(0.772)-15LOG10(f MHZ/0.772)dB

Category 6 UTP Patch Cable, 24AWG×4P, PVC

CONFIGURATION

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

