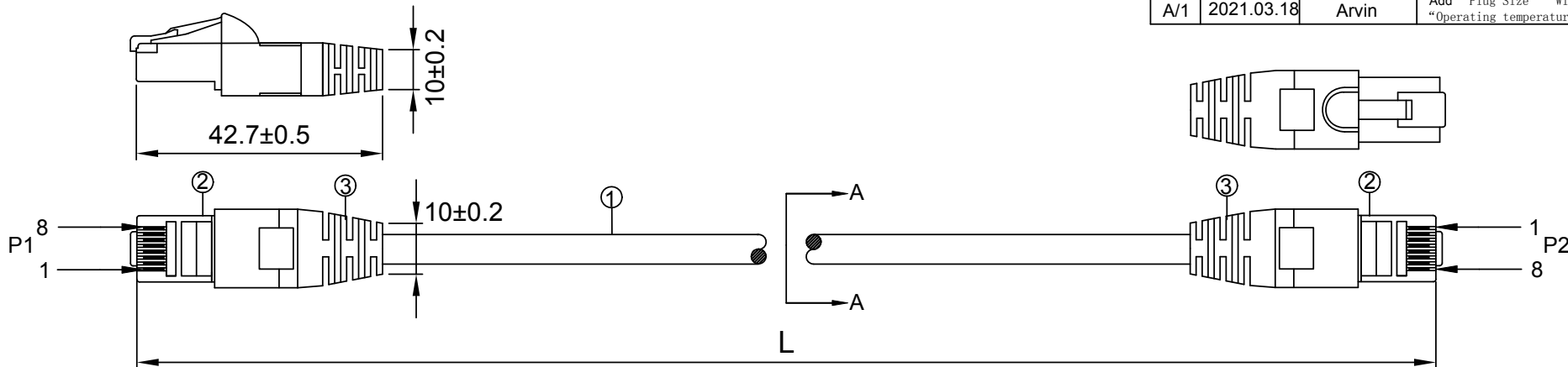


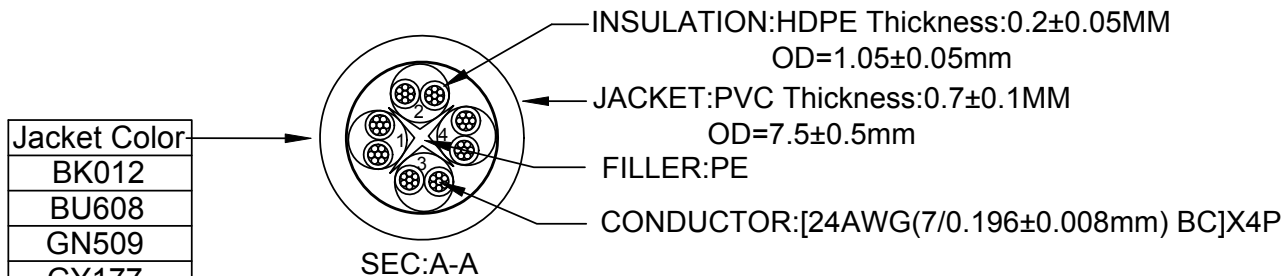
NOTE: ALL MATERIAL COMPLIANT ROHS STANDARD

REVISION INFORMATION			
Rev.	Rev. Date	Modified By	Brief Description
A/0	2017.09.21	LM	NEW
A/1	2021.03.18	Arvin	Add "Plug Size" "Wire printing" "Operating temperature"



INK MARKING <FP2046> :YFC CAT6A UTP 10 GIGABIT ETHERNET PATCH CABLE ISO/IEC 11801 & EN 50288 & ANSI/TIA-568.2-D & IEC 332.1 ▲ 24AWGX4P TYPE CMX(UL) E164469-XX

Operation Temperature:-20°C~+60°C
conductor resistance:92↓(Ω/Km) at 20°C



Jacket Color
BK012
BU608
GN509
GY177
OR307
RD220
PU720
RD210
WH928
YE406

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

PINOUT		
P1	WIRE	P2
1	WHITE/ORANGE	1
2	ORANGE	2
3	WHITE/GREEN	3
6	GREEN	6
5	WHITE/BLUE	5
4	BLUE	4
7	WHITE/BROWN	7
8	BROWN	8

L(ft)	T(inch)	T(%)	L(ft)	T(inch)	T(%)
0.5	±0.6	10%	15	±3.15	1.75%
1	±1.2	10%	20	±4	1.67%
1.5	±1.2	6.67%	25	±4	1.33%
2	±1.2	5%	30	±6	1.67%
3	±1.2	3.33%	35	±6	1.43%
4	±1.2	2.5%	40	±6	1.25%
5	±1.2	2%	50	±6	1.0%
6	±1.2	1.67%	75	±6	0.67%
7	±2	2.38%	100	±6	0.5%
8	±2	2.08%	125	±6	0.4%
9	±2	1.85%	150	±6	0.33%
10	±2	1.67%	175	±6	0.29%
12	±2	1.39%	200	±6	0.25%



③	MOLD	PVC YU-02	A/R	Kg
②	PLUG	8P8C 50U RJ45	2	PCS
①	CABLE	CAT.6A UTP PVC 24AWG*4P BC	A/R	M
NO.	PART NAME	SPECIFICATION DESCRIPTION	QT'Y	UNIT

DRAWN BY Arvin	DATE: 2021/03/18	DESCRIPTION: LAN PATCH C6A UTP 24AWG 4P
CHECKED BY YB	SHEET 1 of 1	ITEM NO.
APPROVED BY CQ	SCALE 1:1	REV. 01 UNIT:mm

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
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

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	

