

Product Specification

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 3rd Edition 61935-1, IEC 2nd Edition 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 / 26AWG
Insulation	Material	Foam-Skin PE
	Thickness	Nominal: 0.27 mm
	Diameter	Nominal: 1.08 mm
	Colors	Blue/White Orange/White Green/White Brown/White
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength	Min. 0.816 Kgf/mm ²
Screen	Material	Aluminum-Mylar tape and tinned copper braid
Jacket	Material	Flame Retardant PVC
	Thickness	Nominal: 0.5 mm
	Diameter	Nominal: 5.7 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.6A SSTP PATCH 3P VERIFIED TO ISO/IEC 11801 ED.2 & ANSI/TIA-568-C.2 & IEC 60332-1-2 26AWGX4P CM(UL) c(UL) E164469-XX or as customer request.	

APPROVALS

UL/cUL Listed

3P Certified for Category 6A PIMF Patch Cable



APPLICATIONS

10GBASE-T ETHERNET (IEEE P802.3an) Proposed
1000BASE-TX Fast Ethernet

100 Mbps TP-PMD
1000BASE-T Gigabit Ethernet

100BASE-TX Fast Ethernet.
 155/622 Mbps ATM
 100VG-AnyLAN
 1.2Gb/s ATM

10BASE-T Ethernet.
 4/16 Mbps Token Ring

ELECTRICAL PERFORMANCES

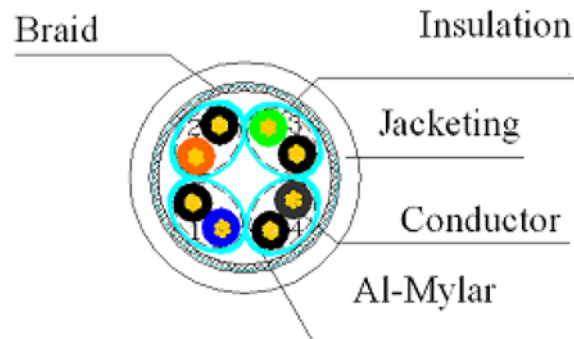
Dielectric Strength of Insulation	1000 V dc / 2 seconds			
Insulation Resistance Test	Min. 5000 MΩ·Km			
Conductor Resistance	Max. 9.38 Ω/100m at 20°C			
Resistance Unbalance	Max. 2%			
Capacitance Unbalance	Max. 160 pF/100m			
Mutual Capacitance	Max. 5600 pF/100m			
Impedance	64kHz	125Ω ± 20%		
	1~500MHz	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*	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	48.1*	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:

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

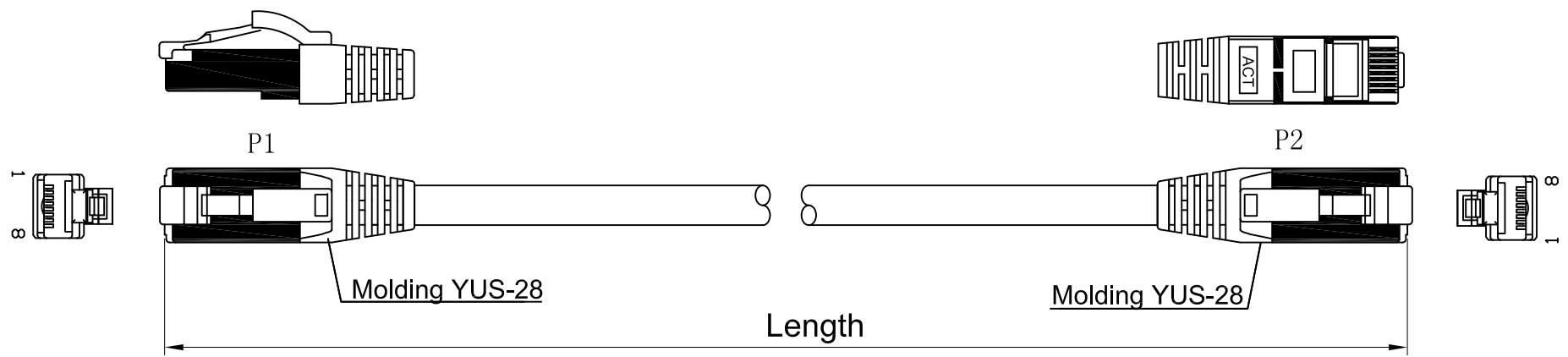
CONFIGURATION

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



MOLDING:
YUS-28

DATE	REV.	REVISION	DRAFTING	CHECKED
2019. 12. 18	A/0	NEW	Jsy	YB



<FP0408> CE 17 ACT Cat6a S/FTP 4X2XAWG26/7 CU PVC ANSI/TIA-568-C.2
ISO/IEC 11801 CLASS EA EN 50288-10-2 / IEC 60332-1-2 26/7 CMX(UL) E477294-01

PINOUT			
P1(T568B)		P2(T568B)	WIRE
1	X	1	WHITE/ORANGE
2		2	ORANGE
3	X	3	WHITE/GREEN
6		6	GREEN
4	X	4	BLUE
5		5	WHITE/BLUE
7	X	7	WHITE/BROWN
8		8	BROWN
Shield		Shield	DRAIN

- Note:
1. Channel Test
 2. 100% Test(Open,short,miss wire)
 3. Contact Resistance:2 ohm max.
 4. Insulation Resistance:DC/250V,10M ohm min. For 0.01s
 5. Withstand Voltage:AC/250V 5mA Max. For 0.01s



③	PVC	70P PVC YUS-28	AR	Unless specified on the drawing, tolerances are per the follows: X. ±0.20 X° ±3 .X ±0.10 .X° ±0.3 .XX ±0.05	DRAW. NO	GFWC-S190454	TITLE	Cat. 6A SSTP 26AWGx4P PVC PATCH CORD		
②	PLUG	8P8C 50u" RJ45	2		CUSTOMER					
①	CABLE	Cat.6A SSTP 26AWGx4P PVC CABLE	AR	CUST' R P/N		DRAW	Jsy	DATE	2019. 12. 18	
No.	TITLE	DESCRIPTION		Q'TY	SCALE	CHECK	YB	DATE	2019. 12. 18	

Material	Part Number	Note	<input checked="" type="checkbox"/> RoHS	<input checked="" type="checkbox"/> Reach	<input type="checkbox"/> GP	<input type="checkbox"/> HF	<input type="checkbox"/> Other	WC			UNIT	mm	APPROVED	CQ	SHEET	1 OF 2
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MOLDING:
YUS-28

DATE	REV.	REVISION	DRAFTING	CHECKED
2019. 12. 18	A/0	NEW	Jsy	YB

TYPE	L(M)	T(mm)	TYPE	L(M)	T(mm)	TYPE	L(M)	T(mm)	TYPE	L(M)	T(mm)	TYPE	L(M)	T(mm)	TYPE	L(M)	T(mm)	TYPE	L(M)	T(mm)
FB6500	0.5	±20	FB6000	0.5	±20	FB6900	0.5	±20	FB3000	0.5	±20	FB6600	0.5	±20	FB6700	0.5	±20	FB6800	0.5	±20
FB6501	1	±20	FB6001	1	±20	FB6901	1	±20	FB3001	1	±20	FB6601	1	±20	FB6701	1	±20	FB6801	1	±20
FB6502	2	±20	FB6002	2	±20	FB6902	2	±20	FB3002	2	±20	FB6602	2	±20	FB6702	2	±20	FB6802	2	±20
FB6503	3	±30	FB6003	3	±30	FB6903	3	±30	FB3003	3	±30	FB6603	3	±30	FB6703	3	±30	FB6803	3	±30
FB6505	5	±50	FB6005	5	±50	FB6905	5	±50	FB3005	5	±50	FB6605	5	±50	FB6705	5	±50	FB6805	5	±50
FB6507	7	±70	FB6007	7	±70	FB6907	7	±70	FB3007	7	±70	FB6607	7	±70	FB6707	7	±70	FB6807	7	±70
FB6510	10	±100	FB6010	10	±100	FB6910	10	±100	FB3010	10	±100	FB6610	10	±100	FB6710	10	±100	FB6810	10	±100
FB6515	15	±150	FB6015	15	±150	FB6915	15	±150	FB3015	15	±150	FB6615	15	±150	FB6715	15	±150	FB6815	15	±150
FB6520	20	±200	FB6020	20	±200	FB6920	20	±200	FB3020	20	±200	FB6620	20	±200	FB6720	20	±200	FB6820	20	±200
FB6525	25	±250	FB6025	25	±250	FB6925	25	±250	FB3025	25	±250	FB6625	25	±250	FB6725	25	±250	FB6825	25	±250
FB6530	30	±300	FB6030	30	±300	FB6930	30	±300	FB3030	30	±300	FB6630	30	±300	FB6730	30	±300	FB6830	30	±300
FB6551	1.5	±20	FB6051	1.5	±20	FB6951	1.5	±20	FB3051	1.5	±20	FB6651	1.5	±20	FB6751	1.5	±20	FB6851	1.5	±20
			FB6052	0.25	±20				FB3052	0.25	±20									

no.	item	color	ral no.	yfc no.
1	FB60xx	ivory	RAL1015	IVO29
2	FB56xx	red	RAL3020	RD210
3	FB66xx	blue	RAL5019	BU608
4	FB67xx	green	RAL6016	GN509
5	FB68xx	yellow	RAL1003	YE406
6	FB69xx	black	RAL9011	BK012
7	FB30xx	gray	RAL9002	GY825



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②						CUSTOMER								
①						CUST' R P/N		DRAW	Jsy	DATE	2019. 12. 18			
No.	TITLE	DESCRIPTION				Q'TY	SCALE	CHECK	YB	DATE	2019. 12. 18			
Material	Part Number	Note	<input checked="" type="checkbox"/> RoHS	<input checked="" type="checkbox"/> Reach	<input type="checkbox"/> GP	<input type="checkbox"/> HF	<input type="checkbox"/> Other	WC	UNIT	mm	APPROVED	CQ	SHEET	2 OF 2

X. ±0.20 X° ±3
.X ±0.10 .X° ±0.3
.XX ±0.05

