

MOLDING:
YUS-28

DATE	REV.	REVISION	DRAW	CHECKED
2025. 02. 06	A/0	NEW	LMF	

1

8

P1

2

3

1

2

3

ACT

1

8

P2

(FP0036) Marking: CE UKCA 17 ACT Cat6a S/FTP 4X2XAWG26/7 CU LSZH ANSI/TIA-568.2-D
ISO/IEC 11801 CLASS EA EN 50288-10-2 IEC 60332-1-2

SIZE

A-A

AL-MYLAR FOIL TAPE

INSULATION:(FOAM PE OD:1.05±0.1mm)x4P

JACKET:LSOH OD:5.8±0.3mm

BRAIDING:AL-Mg Alloy

CONDUCTOR:(26AWG STR BC)x4P

Note:
1.Channel Test
2.100% Test(Open,short,miswire)
3.Conductor Resistance:9Ω Max.
4.Insulation Resistance:DC/250V,10 MΩ Min. For 0.01s
5.Hi-pot Test:AC/250V 5mA Max. For 0.01s
6.All Material Meet the RoHS 2.0 and Reach
7.Operating temperature :-20℃~+60℃
8.Minimum bending radius: 50mm

ACT

DRAW. NO	GFWC-S250022	TITLE	CAT. 6A 26AWGx4P S/FTP LSOH PATCH CORD		
CUSTOMER					
CUST' R P/N	--	DRAW	LMF	DATE	2025. 02. 06
SCALE	NONE	CHECK		DATE	
UNIT	mm	APPROVED		SHEET	1 OF 3

③	Molding	70P PVC	A/R	Unless specified on the drawing, tolerances are per the follows: X. ±0.20 X° ±3 .X ±0.10 .X° ±0.3 .XX ±0.05							
②	Plug	RJ45 8P8C 50u" Shielded Hole Diameter: 1.1mm	2PCS								
①	Cable	LAN CABLE CAT.6A S/FTP 26AWGx4P STR BC LSOH	A/R								
J NO.	TITLE	DESCRIPTION	Q'TY								
	Cable Spec NO.	GFWL-C220098	Part Number	--	Note						

1		2		3		4		5		6		7		8		9		10		11		12		13						
MOLDING:																			DATE		REV.	REVISION		DRAW	CHECKED					
YUS-28																			2025. 02. 06		A/0	NEW		LMF						
A																														
B																														
C																														
D																														
E																														
F																														
G																														
H																														
J																														
Cable Spec NO.		GFWL-C220098		Part Number		--		Note				☐	☐	☐					UNIT		mm		APPROVED				SHEET		2 OF 3	
1		2		3		4		5		6		7		8		9		10		11		12		13						

WIRE		CAT. 6A S/FTP STR 26AWG	
PLUG		RJ45 8P8C 50u"	
Min bending radius		50mm	
NVP		77%	
Standards		TIA/EIA-568. -D EN50288	
Impedance		100 Ω ±15%	
Skew		≤45ns 100m at: 20℃	
Capacity		MAX 5600pF/100m	
Jacket		Thickness: Min at any point: 0.4mm Max AVG:0.5mm Diameter: 5.8±0.3mm	
Insulation		Thickness: Min at any point: 0.15mm Max AVG:0.29mm Diameter: 1.05±0.08mm	
Conductor		Bare Copper 26AWG 7/0.154±0.01mm	

Supports POE Length									
Cable Type		American Wire Gauge (AWG)		Supply Power Length(M) Max					
				IEEE 802.3bt					
				IEEE 802.3at					
				IEEE 802.3af					
				Type 1	Type 1	Type 2	Type 3	Type 4	
Cat. 6A		26AWG		63	63	39	39	39	



Unless specified on the drawing, tolerances are per the follows:		DRAW. NO		GFWC-S250022		TITLE		CAT. 6A 26AWGx4P S/FTP LSOH PATCH CORD			
		CUSTOMER									
X. ±0.20 X° ±3		CUST' R P/N		--		DRAW		LMF	DATE	2025. 02. 06	
.X ±0.10 .X° ±0.3						CHECK			DATE		
.XX ±0.05						UNIT		mm		SHEET	

MOLDING: YUS-28																		10		11		12		13	
																		DATE 2025. 02. 06		REV. A/0	REVISION NEW		DRAW LMF	CHECKED	
P/N	Length(M)	Color	RAL NO	P/N	Length(M)	Color	RAL NO	P/N	Length(M)	Color	RAL NO	P/N	Length(M)	Color	RAL NO	P/N	Length(M)	Color	RAL NO	P/N	Length(M)	Color	RAL NO		
FB7100	0. 5	Orange	RAL2000	FB7300	0. 5	White	Similar RAL9003	FB7400	0. 5	Ivory	RAL1015	FB7500	0. 5	Red	RAL3018	FB8700	0. 5	Purple	RAL4005	FB8800	0. 5	Pink	Similar RAL4003		
FB7101	1			FB7301	1			FB7401	1			FB7501	1			FB8701	1			FB8801	1				
FB7102	2			FB7302	2			FB7402	2			FB7502	2			FB8702	2			FB8802	2				
FB7103	3			FB7303	3			FB7403	3			FB7503	3			FB8703	3			FB8803	3				
FB7105	5			FB7305	5			FB7405	5			FB7505	5			FB8705	5			FB8805	5				
FB7107	7			FB7307	7			FB7407	7			FB7507	7			FB8707	7			FB8807	7				
FB7110	10			FB7310	10			FB7410	10			FB7510	10			FB8710	10			FB8810	10				
FB7115	15			FB7315	15			FB7415	15			FB7515	15			FB8715	15			FB8815	15				
FB7120	20			FB7320	20			FB7420	20			FB7520	20			FB8720	20			FB8820	20				
FB7125	25			FB7325	25			FB7425	25			FB7525	25			FB8725	25			FB8825	25				
FB7130	30			FB7330	30			FB7430	30			FB7530	30			FB8730	30			FB8830	30				
FB7151	1. 5			FB7351	1. 5			FB7451	1. 5			FB7551	1. 5			FB8751	1. 5			FB8851	1. 5				
								FB7452	0. 25																
FB7600	0. 5	Blue	Similar RAL5019	FB7700	0. 5	Green	RAL6018	FB7800	0. 5	Yellow	RAL1018	FB7900	0. 5	Black	RAL9011	FB7000	0. 5	Grey	RAL7045						
FB7601	1			FB7701	1			FB7801	1			FB7901	1			FB7001	1								
FB7602	2			FB7702	2			FB7802	2			FB7902	2			FB7002	2								
FB7603	3			FB7703	3			FB7803	3			FB7903	3			FB7003	3								
FB7605	5			FB7705	5			FB7805	5			FB7905	5			FB7005	5								
FB7607	7			FB7707	7			FB7807	7			FB7907	7			FB7007	7								
FB7610	10			FB7710	10			FB7810	10			FB7910	10			FB7010	10								
FB7615	15			FB7715	15			FB7815	15			FB7915	15			FB7015	15								
FB7620	20			FB7720	20			FB7820	20			FB7920	20			FB7020	20								
FB7625	25			FB7725	25			FB7825	25			FB7925	25			FB7025	25								
FB7630	30			FB7730	30			FB7830	30			FB7930	30			FB7030	30								
FB7651	1. 5			FB7751	1. 5			FB7851	1. 5			FB7951	1. 5			FB7051	1. 5								
																FB7052	0. 25								

Product Specification

STANDARD COMPLIANCES:

All Category 6A Requirements as Per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards:

ANSI/TIA/EIA 568.2-D Cat.6A

ISO/IEC 11801 CLASS D

CENELEC EN 50173-1

IEC 61156-6, CENELEC EN 50288-10-2 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 / 26 AWG 7/0.154±0.01mm
Insulation	Material	Foam PE+PE
	Thickness	Avg: 0.29 mm ; Min 0.15mm
	Diameter	1.05±0.1 mm
	Colors	Blue/White Orange/White
		Green/White Brown/White
	Tensile Strength	Min.0.816 Kg/mm ²
Screen	Material	Aluminum-Mylar tape and AL-Mg Alloy braid
Jacket	Material	LSOH
	Thickness	Avg: 0.50 mm ; Min 0.40mm
	Diameter	5.8±0.3 mm
	Color	Assorted upon request
	Elongation	Min. 125%
	Tensile Strength	Min.0.917 Kg/mm ²
	Aging at 100°C for 168Hrs	Min. elongation retention:75% Min. tensile strength retention:70%
Marking		CE 17 ACT Cat6a S/FTP 4X2XAWG26/7 CU LSZH ANSI/TIA- 568.2-D ISO/IEC 11801 CLASS EA EN 50288-10-2 IEC 60332-1-2
		or as customer request.

APPROVAL:

3P Certified ANSI/TIA/EIA-568.2-D Category 6A testing performance requirements.

APPLICATIONS:

10GBASE-T Ethernet
1000BASE-TX, Gigabit Ethernet
10BASE-T/100BASE-TX Fast Ethernet (IEEE 802.3)
100 VG - AnyLAN (IEEE802.12) 550 MHz Broadband Video
Voice, T1, ISDN, 155/622 Mbps ATM

ELECTRICAL PERFORMANCES:

Spark Test		2000 ± 250 V ac		
Dielectric Strength		1200V dc / 3seconds		
Insulation Resistance Test		Min. 150 MΩ/Km		
Conductor Resistance		Max.14.0Ω/100m at 20℃		
Resistance Unbalance		Max. 5%		
Min bending radius		50mm		
Skew		≤45ns /100 at 20℃		
Mutual Capacitance		Max. 5600 pF/100m		
NVP		77%		
Impedance	1~100MHz	100Ω ± 15%		
	101~500MHz	100Ω ± 22%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Attenuation (dB/100M at 20℃), Max	NEXT (dB), Min	Power Sum (dB),Min
	1MHz	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	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:

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

CONFIGURATION:

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

