

MOLDING:
YUS-06

REV.	DATE	REVISION	DRAFTING	CHECKED
2024. 10. 09	A/0	NEW	LMF	
2025. 04. 10	A/1	1.Add Length Plus and minus tolerance 2.Add Astorage temperature and humidity 3. Add PoE Type	LMF	

1

8

P1

23

1

ACT

L

23

1

P2

1

8

(FP0402)Marking:CE UKCA 17 ACT Cat6 S/FTP 4X2XAWG26/7 CU LSZH ANSI/TIA-568.2-D ISO/IEC 11801 CLASS E EN

50288-5-2 IEC 60332-1-2

SIZE

TIE

AL-MYLAR

INSULATION:(Foam PE+PE
OD:1.05±0.08mm)x4P

JACKET:LSZH OD: 5.8±0.3mm

BRAIDING: AL-Mg

CONDUCTOR:(26AWG BC STR)x4P

A-A

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

Note:
1.Channel Test
2.100% Test(Open,short,miswire)
3.Conductor Resistance:5.5Ω max.
4.Insulation Resistance:DC/250V,10MΩ MIN,0.01S
5.Hi-pot Test:AC/250V 5mA Max. For 0.01s
6.All Material Meet The ROHS 2.0 and Reach
7.Storage temperature:0℃~30℃
8.Storage humidity:<60%RH
9.Operating temperature :-20℃~+60℃

ACT

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	DRAW. NO	GFWC-S240222	TITLE	CAT. 6 26AWGx4P S/FTP LSZH PATCH CORD			
②	Plug	RJ45 8P8C 50u" Shielded Hole Diameter:1.1mm	2PCS		CUSTOMER						
①	Cable	LAN CABLE CAT.6 S/FTP 26AWGx4P STR BC LSZH	A/R		CUST' R P/N	--	DRAW	LMF	DATE	2025. 04. 10	
No.	TITLE	DESCRIPTION			Q' TY	SCALE	NONE	CHECK	审核日期 2025.04.11 宋正偉	DATE	
Cable Spec NO.	GFWL-C220080	Part Number	--	Note	RoHS 2.0 Reach GP HF Other	UNIT	mm	APPROVED	审核日期 2025.04.11 宋正偉	SHEET	1 OF 3

MOLDING: YUS-28									DATE 2024. 10. 09	REV. A/0	REVISION NEW		DRAFTING LMF	CHECKED
									2025. 04. 10	A/1	⚠ Add Length Plus and minus tolerance		LMF	

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Product Specification

STANDARD COMPLIANCES:

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

ANSI/TIA/EIA 568.2-D Cat.6

ISO/IEC 11801 CLASS D

CENELEC EN 50173-1

IEC 61156-6, CENELEC EN 50288-5-2 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±0.08 mm
	Colors	Blue/White Orange/White Green/White Brown/White
	Tensile Strength	Min. 1.683 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
	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 Cat6 S/FTP 4X2XAWG26/7 CU LSZH ANSI/TIA- 568.2-D ISO/IEC 11801 CLASS E EN 50288-5-2 IEC 60332-1-2
		or as customer request.

APPROVAL:

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

APPLICATIONS:

1000BASE-TX Gigabit Ethernet
10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)
100 VG - AnyLAN(IEEE802.12), 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%		
	101~250MHz	100Ω ± 22%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Attenuation (dB/100M at 20℃), Max	NEXT (dB), Min	Power Sum (dB),Min
	1MHz	2.4*	74.3*	72.3*
	4 MHz	4.5*	65.3*	63.3*
	10 MHz	7.1*	59.3*	57.3*
	16 MHz	9.7*	56.2*	54.2*
	20 MHz	10.2*	54.8*	52.8*
	31.25 MHz	12.8*	51.9*	49.9*
	62.5 MHz	18.5*	47.4*	45.4*
	100 MHz	23.8*	44.3*	42.3*
	150 MHz	29.7*	41.4*	39.4*
	200 MHz	34.8*	39.8*	37.8*
	250 MHz	39.4*	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:

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

CONFIGURATION:

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

