

## FP510A Category 5e SFTP Patch Cable, 26AWG×4P, LSOH

### STANDARD COMPLIANCES

All Category 5e Requirements as Per ANSI/TIA, ISO/IEC, and CENELEC EN Standards:

ANSI/TIA-568-C.2 Cat.5e

ISO/IEC 2<sup>nd</sup> Edition 11801 Class D

IEC 61156-6, CENELEC 2<sup>nd</sup> Edition EN 50288-2-2 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 / 26AWG
Insulation	Material	HDPE
	Thickness	Nominal: 0.22 mm
	Diameter	Nominal: 0.92 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 <sup>2</sup>
	Screen	Material
Jacket	Material	LSOH
	Thickness	Nominal: 0.5 mm
	Diameter	Nominal: 5.6 mm
	Color	Assorted upon request
	Unaged Elongation	Min. 125%
	Unaged Tensile Strength	Min. 0.917 Kgf/mm <sup>2</sup>
	Aging at 100°C for 168Hrs	Min. elongation retention:75% Min. tensile strength retention:70%
Marking		ACT CAT.5E SFTP LSOH 26AWGX4P PATCH 3P VERIFIED TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-2-2 & IEC 60332-1-2
		or as customer request.
Installation temperature		0~50°C
Use temperature		-40~60°C

### APPROVALS

3P Certified ANSI/TIA-568-C.2 Category 5e testing performance requirements.



## APPLICATIONS

1000BASE-T Gigabit Ethernet  
 10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)  
 550MHz Broadband Video  
 100 VG – AnyLAN (IEEE802.12), 155/622 Mbps ATM  
 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°C		
Resistance Unbalance		Max. 2%		
Capacitance Unbalance		Max. 160 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	772kHz	102Ω ± 15%		
	1~125MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Max.Attenuation (dB/100 meters)	NEXT (dB), Min.	PSNEXT (dB), Min.
	1 MHz	2.4*	65.3*	62.3*
	4 MHz	4.9*	56.3*	53.3*
	8 MHz	6.9*	51.8*	48.8*
	10 MHz	7.8*	50.3*	47.3*
	16 MHz	9.9*	47.2*	44.2*
	20 MHz	11.1*	45.8*	42.8*
	25 MHz	12.5*	44.3*	41.3*
	31.25 MHz	14.1*	42.9*	39.9*
	62.5 MHz	20.4*	38.4*	35.4*
	100 MHz	26.4*	35.3*	32.3*
	125 MHz	29.8*	33.8*	30.8*

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

