

PRODUCT SPECIFICATION

Category 6 F/UTP Patch Cable,
26AWG×4P, LSOH

STANDARD COMPLIANCES

All Proposed Category 6 requirements as per ANSI/TIA, ISO/IEC, and CENELEC EN Standards:

ANSI/TIA-568.2-D Cat.6

ISO/IEC 2nd Edition 11801 Class E

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.

Our products always comply with RoHS and REACH Directives.

CONSTRUCTION & CHARACTERISTICS

Conductor	Material / Size	Bare Copper / 26AWG
Insulation	Material	HDPE
	Thickness	Nominal: 0.2 mm
	Diameter	Nominal: 0.88 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
Screen	Material	Aluminum-Mylar tape
Drain Wire	Material	Tinned Copper
Jacket	Material	LSOH
	Thickness	Nominal: 0.5 mm
	Diameter	Nominal: 6.1 mm
	Color	Assorted upon request
	Unaged Elongation	Min. 125%
	Unaged Tensile Strength	Min. 0.917 Kgf/mm ²
	Aging at 100°C for 168Hrs	Min. elongation retention:75% Min. tensile strength retention:70%
Marking		CAT.6 F/UTP LSOH 26AWGX4P PATCH CONFORM TO ANSI/TIA-568.2-D & ISO/IEC 11801 ED.2 & EN 50288-5-2 & IEC 60332-1-2
		or as customer request.

(PS): "+" Mould separate

APPLICATIONS

1000BASE-TX Gigabit Ethernet

10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)

100 VG – AnyLAN (IEEE802.12), 155/622 Mbps ATM

550MHz Broadband Video, Voice, T1, ISDN

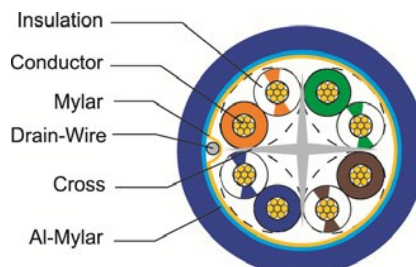
ELECTRICAL PERFORMANCES

Dielectric Strength of Insulation	1200 V dc or 850 V ac / 2 seconds			
Insulation Resistance Test	Min. 5000 MΩ/m			
Conductor Resistance	Max. 14.0 Ω/100m at 20°C			
Resistance Unbalance	Max. 2%			
Capacitance Unbalance	Max. 160 pF/100m			
Mutual Capacitance	Max. 5600 pF/100m			
Impedance	1~100MHz	100Ω ± 15%		
	100~250MHz	100Ω ± 22%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Max.Attenuation (dB/100 meters)	NEXT (dB), Min.	PSNEXT (dB), Min.
	1 MHz	2.4*	74.3*	72.3*
	4 MHz	4.5*	65.3*	63.3*
	10 MHz	7.1*	59.3*	57.3*
	16 MHz	9.1*	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*
	200MHz	34.8*	39.8*	37.8*
	250MHz	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: $NEXT(f\text{ MHz}) \geq NEXT(0.772) - 15\text{LOG}_{10}(f\text{ MHz}/0.772)\text{dB}$

CONFIGURATION

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



COLOR INFORMATION

Part No.	PACKAGING	COLOR	
		Manufacturer standard No.	RAL/PANTONE No.
39-3405	500M/Wooden drum	GY852	RAL9002
39-3406		RD215	Pantone 1795c
39-3407		BU632	Pantone 7701c
39-3408		GN520	RAL6037
39-3409		YE419	Pantone 129c
39-3410		BK012	Pantone Black 6c