

APPLICATIONS

1000BASE-T Gigabit Ethernet
 10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)
 100 VG - AnyLAN(IEEE802.12), 100 Mbps ATM

Voice, T1, ISDN

ELECTRICAL PERFORMANCES

Dielectric Strength of Insulation		2850 V dc / 2 seconds		
Insulation Resistance Test		Min. 5000 M \cdot Km		
Conductor Resistance		Max. 9.38 Ω /100m at 20 \square		
Resistance Unbalance		Max. 2%		
Capacitance Unbalance		Max. 160 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	772kHz	102 \pm 15%		
	1~250MHz	100 \pm 6 Ohm		
Attenuation & Near End Cross Talk	Frequency (MHz)	Max.Attenuation (dB/100 meters)	NEXT (dB), Min.	PSNEXT (dB), Min.
	1 MHz	2.0*	65.3*	62.3*
	4 MHz	4.1*	56.3*	53.3*
	8 MHz	5.8*	51.8*	48.8*
	10 MHz	6.5*	50.3*	47.3*
	16 MHz	8.2*	47.2*	44.2*
	20 MHz	9.3*	45.8*	42.8*
	25 MHz	10.4*	44.3*	41.3*
	31.25 MHz	11.7*	42.9*	39.9*
	62.5 MHz	17.0*	38.4*	35.4*
	100 MHz	22.0*	35.3*	32.3*
	125 MHz	24.9*	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:
 $NEXT(f\text{ MHz}) \square NEXT(0.772)-15LOG_{10}(f\text{ MHz}/0.772)dB$

CONFIGURATION

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

