



ADDISON TECHNOLOGY

Coastal House, 180 Bridge Road, Southampton, England S031

Tel: (44) 1489 556957

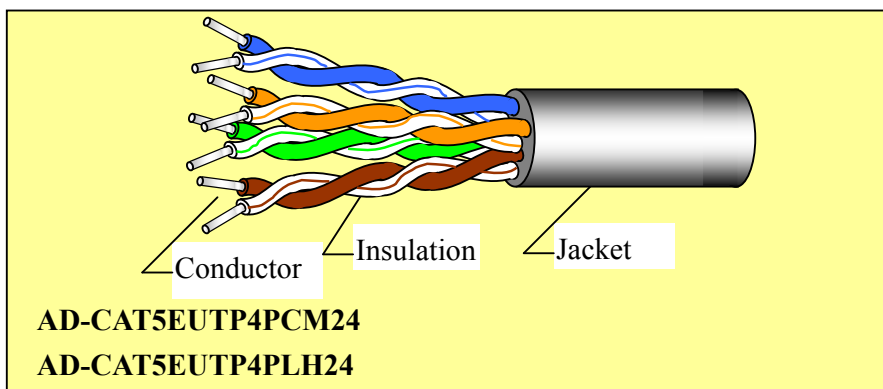
Fax: (44) 1489 556931

Product Specification

UTP CAT5E 4PR 24AWG CABLE



US LISTED
E222756



1. Wire :

Wire No.	Color
1P	Blue (White/Blue Stripe
2P	Orange (White/Orange Stripe
3P	Green (White/Green Stripe
4P	Brown (White/Brown Stripe

2. Specification :

3.

Conductor	Material	Copper Wire
	Structure	1 / 0.515 ± 0.007 mm
	Diameter	Approx. 0.515 mm
Insulation	Material	HDPE
	Average Thickness	0.2 mm
	Diameter	0.915 (0.05 mm
Twisted		Four pairs
Assembly	Arranged in accordance with the structure figure.	
Jacket	Material	PVC or LSOH
	Average Thickness	0.5 mm

United Kingdom *United States * Singapore * Hong Kong * China *Japan * Philippine

Addison Website: www.addison-tech.com

Please contact webmaster@addison-tech.com for any further clarifications.



ADDISON TECHNOLOGY

Coastal House, 180 Bridge Road, Southampton, England S031

Tel: (44) 1489 556957

Fax: (44) 1489 556931

Product Specification	UTP CAT5E 4PR 24AWG CABLE	 US LISTED E222756
------------------------------	----------------------------------	--

	Diameter	5.2 ± 0.2 mm
--	----------	--------------

3. Electrical Characteristics : Comply with TIA/EIA-568-B.2 Standard.

Item		Electrical Characteristics of Cable		
Impedance (1 – 100 MHz)		100 ± 15 Ω		
Conductor Resistance (20°C)		9.38 Ω Per 100 m (328 ft)		
Resistance Unbalance (20°C)		Max. 5%		
Insulation Resistance (20°C)		1500M((Km DC 500V (Between wire and ground)		
Dielectric strength		DC 500V / 1min. or AC 350 V / 1min.		
Mutual Capacitance (1KHz)		Max. 5.6 nF Per 100 m (328 ft)		
Capacitance unbalance (1KHz)		330 pF Per 100 m (328 ft) (pair to ground)		
Delay Skew		Max. 45 ns Per 100 m (328 ft)		
Frequency	Insertion Loss (dB/100m) Max.	Propagation Delay		
0.772MHz	1.8	—		
1 MHz	2.0	534 + 36/ √f (f : MHz)		
4 MHz	4.1			
8 MHz	5.8			
10 MHz	6.5			
16 MHz	8.2			
20 MHz	9.3			
25 MHz	10.4			
31.25 MHz	11.7			
62.5 MHz	17.0			
100 MHz	22.0			
Frequency	NEXT (dB/100m) Min.	PSNEXT (dB/100m) Min.	ELFXT (dB/100m) Min.	PSELFXT (dB/100m) Min.
0.772MHz	67.0	64.0	—	—
1 MHz	65.3	62.3	63.8	60.8
4 MHz	56.3	53.3	51.7	48.7
8 MHz	51.8	48.8	45.7	42.7
10 MHz	50.3	47.3	43.8	40.8
16 MHz	47.3	44.4	39.7	36.7

United Kingdom *United States * Singapore * Hong Kong * China *Japan * Philippine

Addison Website: www.addison-tech.com

Please contact webmaster@addison-tech.com for any further clarifications.



ADDISON TECHNOLOGY

Coastal House, 180 Bridge Road, Southampton, England S031

Tel: (44) 1489 556957

Fax: (44) 1489 556931

Product Specification	UTP CAT5E 4PR 24AWG CABLE	 US LISTED E222756
------------------------------	----------------------------------	--

20 MHz	45.8	42.8	37.7	34.7
25 MHz	44.3	41.3	35.8	32.8
31.25 MHz	42.9	39.9	33.9	30.9
62.5 MHz	36.4	35.4	27.8	24.6
100 MHz	35.3	32.3	23.8	20.8
Return Loss (dB/100m)	$1 \leq f < 10\text{MHz}$	$RL \geq 20 + 5.0 \log(f)$		
	$10 \leq f < 20\text{MHz}$	$RL \geq 25$		
	$20 \leq f < 100\text{MHz}$	$RL \geq 25 - 7.0 \log(f/20)$		

United Kingdom * United States * Singapore * Hong Kong * China * Japan * Philippine

Addison Website: www.addison-tech.com

Please contact webmaster@addison-tech.com for any further clarifications.