

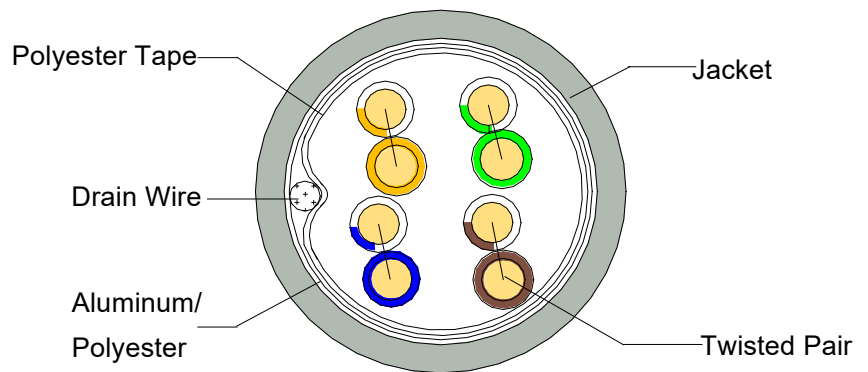
## CAT5E F/UTP 24AWG 4PAIR PVC

### STANDARDS

ANSI/TIA-568-C.2, IEC 61156-5  
EN 50288-2-1  
EN 50173  
ISO/IEC 11801  
EN 50575

### APPLICATIONS

10BASE-T (IEEE 802.3)  
4/16 Mbps TOKEN RING (IEEE 802.5)  
100BASE-VG-AnyLAN  
100 Mbps TP-PMD (ANSI X3T9.5)  
100BASE-T (IEEE 802.3)  
55/155 Mbps ATM  
1000BASE-T (Gigabit Ethernet)



### CONSTRUCTION

Conductor Material	99.99% Solid Bare Copper	
Conductor Number	8C(4 pairs)	
Cable AWG	24	
Construction(±0.01mm)	1/0.51	
Wrapping tape Overlap	Polyester Tape ≥25%	
Drain Wire (1/0.40)	Tinned copper	
Shield Overlap	aluminum/polyester ≥25%	
Insulation	Material	PE
	Nom. Thickness(mm)	0.27
	Diameter(±0.05mm)	1.05
Jacket	Material	PVC
	Nom. Thickness(mm)	0.50
	Diameter(±0.30mm)	6.30

### CERTIFICATION



### COLOR CODES

Insulation Color:

P1: White / Blue & Blue  
P2: White / Orange & Orange  
P3: White / Green & Green  
P4: White / Brown & Brown

Jacket Color:

Opiton

### CABLE PRINTING

Option

### PACKAGING

1. Reel/ 305m  
2. Reel/ 500m

### TEST REQUIREMENT

Pass fluke 90m permanent link test  
TIA-568-C.2

### ELECTRICAL PERFORMANCE

Max. Conductor DC Resistance (Ω/km)	93	
Min. Insulation Resistance (MΩ-KM)	5000	
Dielectric Strength	DC-1KV/1 Min	
1.0-100MHZ Characteristic Impedance(ohms)	100Ω±15Ω	
1.0-100MHZ Delay Skew(ns/100m)	≤45	
Pair to Ground Capacitance Unbalance(PF/100m)	≤330	
Resistance Unbalance between pairs (%)	≤4	
Max Mutual Capacitance	5.6nF/100m	
Max DC Loop Resistance	19.2Ω/100m	
Before Aging	Tensile Strength(Mpa)	≥13.5
	Elongation(%)	≥100
After Aging 100°C*24h*7d	Tensile Strength(Mpa)	≥75%
	Elongation(%)	≥50
Velocity of Propagation NVP	69%	

Freq.	ATTN	RL	NEXT	ELFEXT	PS NEXT	PS ELFEXT
(MHz)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)
1	2.0	20.0	65.3	63.8	62.3	60.8
4	4.1	23.3	56.3	51.7	53.3	48.7
10	6.5	25.0	50.3	43.8	47.3	40.8
16	8.2	25.0	47.3	39.7	44.2	36.7
20	9.3	25.0	45.8	37.7	42.8	34.7
31.25	11.7	23.6	42.9	33.9	39.9	30.9
62.5	17.0	21.5	38.4	27.8	35.4	24.8
100	22.0	20.0	35.3	23.8	32.3	20.8

### TIA-568-C.2

#### TIA Cat 5e Perm. Link

Wire Map	Res.	Length	Prop. Delay	Delay Skew	Freq.	Insertion Loss	NEXT	RL	ACR-N	ACR-F	PS NEXT	PS ACR-N	PS ACR-F
	$\Omega$	Max.	nS	nS	MHz	dB	dB	dB	dB	dB	dB	dB	dB
12345678	i	90 m	498	44	1	3	60.0	19.0	57.0	58.6	57.0	54.0	55.6
12345678					4	3.9	54.8	19.0	50.9	46.6	51.8	47.9	43.6
					8	5.5	50.0	19.0	44.5	40.6	47.0	41.5	37.6
12345678S					10	6.2	48.5	19.0	42.3	38.6	45.5	39.3	35.6
12345678S					16	7.9	45.2	19.0	37.3	34.5	42.2	34.3	31.5
					20	8.9	43.7	19.0	34.8	32.6	40.7	31.8	29.6
					25	10	42.1	18.0	32.1	30.7	39.1	29.1	27.7
					31.25	11.2	40.5	17.1	29.3	28.7	37.5	26.3	25.7
					62.5	16.2	35.7	14.1	19.4	22.7	32.7	16.4	19.7
					100	21	32.3	12.0	11.3	18.6	29.3	8.3	15.6

