

TECHNICAL DATA SHEET UTP CAT.5E WELL

Electrical Performance (20°C)

Item	Parameter	Note
Conductor resistance	$\leq 11.5\Omega/100m$	
Insulation resistance	$\geq 5000M\Omega Km(DC500V \text{ Charged } 1Min)$	
Voltage endurance	DC 1000V/min	
Mutual capacitance	$\leq 5.6nF/100m$	
Core-core resistance unbalance	$\leq 5.0\%$	

High frequency performance

Item Freq	Attenuation $\leq dB/100m$	RL $\geq dB/100m$	NEXT $\geq dB/100m$	PSNEXT $\geq dB/100m$	ACR-F $\geq dB/100m$	NOTE
1MHz	3.0	17.0	60.0	57.0	57.4	FLLUKE TIA CAT5E Channel
4MHz	4.5	17.0	53.6	50.6	45.3	
10MHz	7.1	17.0	47.0	44.0	37.4	
16MHz	9.1	17.0	43.6	40.6	33.3	
20MHz	10.2	17.0	42.0	39.0	31.4	
25MHz	11.4	16.0	40.4	37.4	29.4	
31.25MHz	12.9	15.1	38.7	35.7	27.5	
62.5MHz	18.6	12.1	33.6	30.6	21.5	
100MHz	24.0	10.0	30.1	27.1	17.4	

Structure drawing:



Color of twisted pair (Arabic numerals in structure drawing stand for the twisted pair)

No.	Color of insulation	
1	White/blue	Blue
2	White/orange	Orange
3	White/green	Green
4	White/brown	Brown