

U/UTP 4Pairs cable-category5E-PVC Sheath

Content of the Data Sheet

Sheath Printing	HIKVISION U/UTP 4PR CMX CAT5E VERIFIED TO ANSI/TIA-568-C.2 PVC ****m mm/dd/yyyy			
Model	DS-1LN5E-E/E			
Category	U/UTP CAT5E-4P-PVC			
Conductor	Material	Solid-Bare Copper		
	Content	99.95%		
	Nom.O.D.(mm)	0.450	up	+0.005
			down	-0.005
Insulation	Material	HDPE		
	Diameter	0.82±0.04mm		
Sheath	Thickness	0.50±0.05 mm		
	External O.D.	4.7±0.4 mm		
	Surface	Clean,Frap,Satiation		
	Material	PVC(complies RoHS),CMX		
	Color	Grey ZLC1003		
Surface Printing	Letter height	3.0±0.3mm		
	Color	Black		
	Print error & Space	≤±0.5%, 1m		
Core Color	1 White- Blue /Blue	2 White-Orange /Orange		
	3 White- Green /Green	4 White- Brown /Brown		
Packing	Wooden Tray & Carton			
Carton dimension	Per request			
Packing length	305±1.5m/80±0.5m			
Rip-cord	Yes	Drain wire	No	
Sheath Physical Properties	Before Aging Tensile Strength (Mpa)	≥13.5		
	Elongation(%)	≥150		
	Aging Period(°C×hrs)	100°C×24h×7d		
	After Aging Tensile Strength(Mpa)	≥12.5		
	Elongation(%)	≥125		
	Cold bend(-20±2°C×4h) 8×Cable O.D., No visible cracks			
Electrical Characteristics (20°C)	1.0-100.0MHz Impedance(Ω)	100±15		
	1.0-100.0MHz Delay Shew (ns/100m)	≤45		
	DC Resistance Ω/100m) max	14.8		
	DC Conductor Resistance Unbalance(%) max	5.0		
Operating Temperature Range: -20°C~70°C				Operating Voltage: 80V

White-Blue /Blue White-Orange/Orange

Sheath

Rip-cord

White- Green /Green

White- Brown /Brown

FLUKE Technical Performance (≤80m)

Frequency (MHz)	RL (dB)	ATT (dB)	NEXT (dB)	DELAY (ns)
1	19.0	3.0	60.0	521
4.0	19.0	3.9	54.8	504
8.0	19.0	5.5	50.0	500
10.0	19.0	6.2	48.5	498
16.0	19.0	7.9	45.2	496
20.0	19.0	8.9	43.7	495
25.0	18.0	10.0	42.1	495
31.25	17.1	11.2	40.5	494
62.5	14.1	16.2	35.7	492
100	12.0	21.0	32.3	491

Frequency (MHz)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)
1	57.0	58.6	55.6
4	51.8	46.6	43.6
8	47.0	40.6	37.5
10	45.5	38.6	35.6
16	42.2	34.5	31.5
20	40.7	32.6	29.6
25	39.1	30.7	27.7
31.25	37.5	28.7	25.7
62.5	32.7	22.7	19.7
100	29.3	18.6	15.6