



PRODUCT DESCRIPTION

- Hyperline brings Category 6A UTP LSZH performance to a new level. This cable meets the ANSI/TIA-568-C.2 With guaranteed performance up to 500 MHz, 6A cable demonstrates superior capability for 10 Gigabit Ethernet (10GbE) and all other bandwidth intensive and legacy application when compared to TIA guidelines; meets or surpasses the specifications in every category.

STANDARDS

- UL
- ETL

ELECTRICAL CHARACTERISTICS

Item	Parameter
Conductor resistance	$\leq 9.38\Omega/100m$
Insulation resistance	$\geq 5000M\Omega Km(DC500V$ Charged 1Min)
Voltage endurance	DC 1500V/min
Mutual capacitance	$\leq 5.6nF/100m$
Capacitance unbalance pair- to-ground	$\leq 330 pF/100m$
Core-core resistance unbalance	$\leq 2.0\%$

CONSTRUCTION

Item	Specification & Design	Diameter mm
Conductor	Material: Soft annealed bare copper wire	0.575±0.01
	Comping:1/0.575	
Insulation	Material:HD-PE(high-density polyethylene)	1.02±0.05
	Color: White/Blue/Blue White/Orange/Orange White/Green/Green White/Brown/Brown	
	Nominal wall:0.23mm	
Twisted Pair	Lay length: $\leq 38mm$	2.04
Framework	Material: PE	(5.1*0.7)±0.5
Cable Core	Composing: 4 number of Twisted pair stranded together to Form the main core.	5.5±0.3
	Lay length: $\leq 120mm$	
Sheath	Material: PVC Rip Cord Nominal wall of sheath 0.50mm	6.5±0.5



ELECTRICAL CHARACTERISTICS

Item Freq	Attenuation ≤dB/100m	NEXT ≥dB/100m	RL ≥dB/100m	PS-NEXT ≥dB/100m	ELFEXT ≥dB/100m	PSELFEXT ≥dB/100m	Remark
1MHz	2.0	74.3	20.0	72.3	67.8	64.8	TIA/EIA 568C.2 100m cable test unwind in the air
4MHz	3.8	65.3	23.0	63.3	55.8	52.8	
8MHz	5.3	60.8	24.5	58.8	49.7	46.7	
10MHz	6.0	59.3	25.0	57.3	47.8	44.8	
16MHz	7.6	56.2	25.0	54.2	43.7	40.7	
20MHz	8.5	54.8	25.0	52.8	41.8	38.8	
31.25MHz	10.7	51.9	23.5	49.9	37.9	34.9	
62.5MHz	15.4	47.4	21.5	45.4	31.9	28.9	
100MHz	19.8	44.3	20.0	42.3	27.8	24.8	
200MHZ	29.0	39.8	20.0	37.8	21.8	18.8	
250MHZ	32.8	38.3	20.0	36.3	19.8	16.8	
300MHZ	36.4	37.1	16.8	35.1	18.3	15.3	
400MHZ	43.0	35.3	15.9	33.3	15.8	12.8	
500MHZ	48.9	33.8	15.2	31.8	12.8	10.8	

