

## Cable Construction

Conductor	: 23 AWG Solid bare Copper
Insulation	: High Density Polyethylene
Pair	: 2 Insulated conductors twisted together
	<b>Colour</b>
	White-Orange Stripe and Orange
	White-Green Stripe and Green
	White-Blue Stripe and Blue
	White-Brown Stripe and Brown
Filler	: Special Filler
Separator	: LSZH
Jacket	: LSZH - Colours: Grey, Blue, Purple Diameter: 7.8mm + 0.4mm
Marking	: 340-123, Evolution XPC Cat6a UTP 23AWG LSZH/Cca, DOM, MM

**RoHS  
Compliant**

## Electrical Characteristics 20°C

Characteristics Impedance	: 100Ω + 15Ω
Conductor Resistance	: ≤ 9.38Ω/100m
Mutual Capacitance	: < 5.6nF/100m
Resistance Unbalance	: 5% Max
Capacitance Unbalance	: 330pF/100m
Delay Skew	: < 45nS
Mechanical	: Bending Radius: Min. 8 x Cable Diameter Pulling Force : 11.5Kg
Temperature Range	: Installation : 0°C to +50°C Operation : -20°C to +70°C

## Transmission Characteristics per 90m Permanent Link

Frequency (MHz)	Insertion Loss Max.(dB)	NEXT (dB) Min.	RL (dB) Min.	PS NEXT (dB) Min.	ACR-F (dB) Min.	PS ACR-F (dB) Min.
1	1.9	65	19.1	62	64.2	61.2
4	3.5	64.1	21	61.8	52.1	49.1
8	5	59.4	21	57	46.1	43.1
10	5.5	57.8	21	55.5	44.2	41.2
16	7	54.6	20	52.2	40.1	37.1
20	7.8	53.1	19.5	50.7	38.2	35.2
25	8.8	51.5	19	49.1	36.2	33.2
31.25	9.9	50	18.5	47.5	34.3	31.3
62.5	14	45.1	16	42.7	28.3	25.3
100	18	41.8	14	39.3	24.2	21.2
200	26.1	36.9	11	34.3	18.2	15.2
250	29.5	35.3	10	32.7	16.2	13.2
300	32.7	34	8.2	31.4	14.6	11.6
400	38.4	29.9	8	27.1	12.1	9.1
500	43.8	26.7	8	23.8	10.2	7.2

## Part Number Table

Description	Part Number
Cat6a UTP LSZH Cable, 305m	MP007930

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