

RoHS  
Compliant

## Cable Construction

Conductor	: 23 AWG Solid bare Copper 0.555mm + 0.01mm
Insulation	: High Density Polyethylene Solid
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
Sheath	: PE Black - UV Stabilized
Jacket	: Diameter: 6.2mm + 0.2mm Colour: Black
Marking	: 340-113, Evolution XPC Cat6 UTP 23AWG PE Black 23 AWG

## 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 : < 4 X Cable Diameter at -20°C ±1°C Pulling Force : 11.5Kg
Temperature Range	: Installation : -20°C to +75°C Operation : 0°C to +50°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	7.9	53.1	19.5	50.7	38.2	35.2
25	8.9	51.5	19	49.1	36.2	33.2
31.25	10	50	18.5	47.5	34.3	31.3
62.5	14.4	45.1	16	42.7	28.3	25.3
100	18.6	41.8	14	39.3	24.2	21.2
200	27.4	36.9	11	34.3	18.2	15.2
250	31.1	35.3	10	32.7	16.2	13.2

## Part Number Table

Description	Part Number
Cat6 UTP Cable, Black, 305m	MP007928

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