

Description

Cat6 UTP Data Cable Consists of 4 Pair PE Insulated 23AWG Solid Annealed Bare Copper Conductors, PE Cross Separator, Rip Cord, Low Smoke Zero Halogen (LSZH) Compound Outer Sheath.

Application

These structure cable suitable for 10Gigabyte Ethernet Applications and compatible with all known connection Systems, Ideal for high performance workstation applications including voice/data systems, Digital video, Broadband and Voice over internet protocol etc.

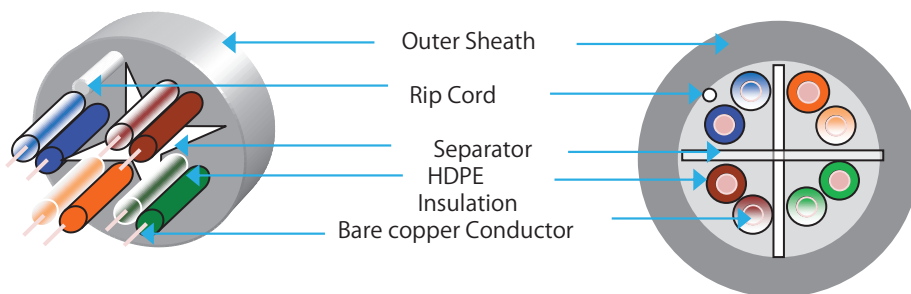
Features

- * Complies to the requirements of TIA/EIA 568 C.2 and ISO/ IEC 11801–2nd Edition
- * Cable Characterized up to 250 MHz,
- * Full Power Sum Performance.
- * LSZH outer Sheath.
- * Flame Properties ; IEC 60332 -1, IEC 60754-1&2 and IEC 61034

Colour Code

- Pair 1: White– Blue, Blue
- Pair 2: White- Orange, Orange
- Pair 3: White– Green, Green
- Pair 4: White– Brown, Brown

CABLE CONSTRUCTION & CROSS-SECTION



ELECTRICAL CHARACTERISITICS (at 20°C on 100m cable length)

Conductor Resistance	Max.9.38 Ω/100m
Conductor Resistance Unbalance	Max.4 %
Mutual Capacitance	Max. 5.6 nF/100m
Capacitance Earth Unbalance	Max. 330 pF/100m
Propagation Delay @ 1, 10, 100 & 250 MHz	Max. 570, 545, 538 & 536 ns/100 m
Propagation DeLay Skew 1 – 250 MHz	Max.45 ns/100 m
Characteristic Impedance (1-250 MHz)	100 ± 15Ω

COPPER SYSTEM

Conductor	: 23 AWG (0.56 ± 0.01 mm) Solid Bare Copper conductor
Insulation	: High Density Polyethylene, Diameter (1.02 ± 0.03 mm)
Pairs	: Two Insulated conductors Twisted together to form pair
Twisting	: 4 pairs laid together and separated by cross element
Sheath	: LSZH compound Colour: GREY or As per request.
Cable Diameter	: 6.20 ± 0.30 mm

Transmission Characteristics

Freq (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	ACRF (ELFEXT) (dB)	PSACRF [PSELFEXT] (dB)	Return Loss (dB)	TCL (dB)	ELTCL (dB)
	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Min.
1.0	2.0	74.3	72.3	67.8	64.8	20.0	40	35.0
4.0	3.8	65.3	63.3	55.8	52.8	23.0	40	23.0
8.0	5.3	60.8	58.8	49.7	46.7	24.5	40	16.9
10.0	6.0	59.3	57.3	47.8	44.8	25.0	40	15.0
16.0	7.6	56.2	54.2	43.7	40.7	25.0	38	10.9
20.0	8.5	54.8	52.8	41.8	38.8	25.0	37	9.0
25.0	9.5	53.3	51.3	39.8	36.8	24.3	36	7.0
31.25	10.7	51.9	49.9	37.9	34.9	23.6	35.1	5.5 @ 30 MHz
62.5	15.4	47.4	45.4	31.9	28.9	21.5	32.0	
100	19.8	44.3	42.3	27.8	24.8	20.1	30.0	
200	29.0	39.8	37.8	21.8	18.8	18.0	27.0	
250	32.8	38.3	36.3	19.8	16.8	17.3	26.0	

Mechanical Properties

Bending radius: 4 x overall diameter (min.)
 Breaking strength: 400 N (max.)

Thermal Characteristics

Temperature Range: -20° C up to +60° C

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	COLOUR
APCZH-4-C6VT	Cat6 Unshielded (UTP) 4 Pair 23 AWG Solid LSZH 305m Cable	Violet
APCZH-4-C6GY	Cat6 Unshielded (UTP) 4 Pair 23 AWG Solid LSZH 305m Cable	Grey
APCZH-4-C6VT5	Cat6 Unshielded (UTP) 4 Pair 23 AWG Solid LSZH 500m Cable	Violet
APCZH-4-C6GY5	Cat6 Unshielded (UTP) 4 Pair 23 AWG Solid LSZH 500m Cable	Grey

