

# LPSUTPCAT6BC

## DESCRIPTION

CAT6 4-Pair UTP 23AWG Solid Bare Copper  
CMR 1000ft

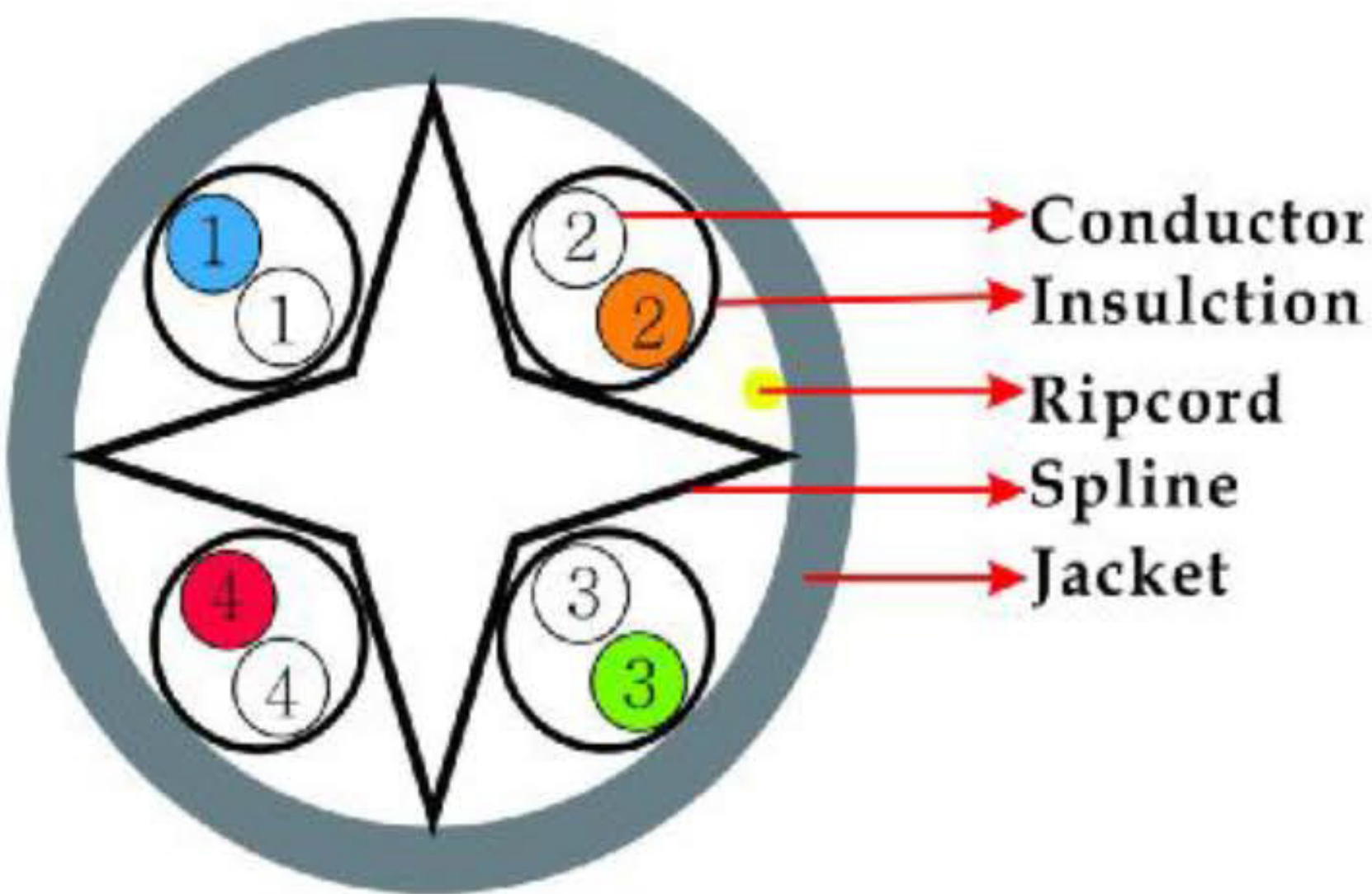
## FEATURES

- High-Performance Data Cable
- CAT6 Unshielded Twisted Pairs
- Easily Identified Color-Striped Pairs
- 23AWG Solid Copper Conductors
- TIA/EIA-568.C.2, ISO/IEC 11801

## APPLICATION

High Speed Horizontal Cabling  
100 Mbps TPDDI , 1000 Base T , 622 Mbps ATM  
IEEE802.3/IEEE802.5 , 10 Base-T , 100 Base-T4  
1000 Base-X , 100 Base-VG , Gigabit Ethernet

## STRUCTURE



## SPECIFICATION

### Technical Data

Rated Temperature	70 °C
Rated Voltage	30V
Reference Standard	EIA/TIA 568 & ISO/IEC 11801

### Conductor

Material	<b>Solid Bare Copper</b> Bare Copper (100% Copper)
AWG	23AWG
Conductor Diameter	4X2X1/0.5±0.01mm

### Insulation

Material	<b>HDPE</b> PE
AVG. Thickness	0.21 ± 0.01 mm
Insulation Diameter	0.9 ± 0.01mm

### High twisted & Ripcord

#### Jacket

AVG. Thickness	0.63 mm
Outer Diameter	6.0 ± 0.1mm

Color Available

Marking Available

### Color of Pairs

Pair 1	Blue	White-Blue
Pair 2	Orange	White-Orange
Pair 3	Green	White-Green
Pair 4	Brown	White-Brown

## PERFORMANCE

### Mechanical Properties

Net Weight	11.0 KG for 305Meter
Gross Weight	11.8 KG for 1 box
Bending Radius	≥ 4xOD(without load)
Temperature range	during operation : -40°C ~ 75°C
Reference Standard	during installation : 0°C ~ 60°C
Casing tension	1.4 Kgf/mm2 Min
Casing elongation	100% Min.

### Electrical Properties

DC resistance	Max 9.8 Ω / 100 m at 20 °C
Max. Con. DC resistance	95 ohms/km at 21 °C
1.0 - 100 MHz Impedance	100 ± 15 (Ohms)
100 - 250 MHz Impedance	100 ± 15 (Ohms)
250 - 550 MHz Impedance	100 ± 35 (Ohms)
Pair-to-ground Cap. Unbalance	≤ 330
Resistance Unbalance	≤ 5%

Frequency (MHZ)	Attenuation (dB/100m)	Pr-Pr Next (dB)	PS Next (dB)	Return Loss (dB)	PS Elfext (dB/100m)
10	7.1	59.3	57.3	25	44.8
1	2.4	74.3	72.3	20	64.8
20	10.2	54.8	52.8	25	38.8
31.5	12.8	51.9	49.9	23.3	34.9
62.5	18.5	47.4	45.4	20.7	28.9
100	23.8	44.3	42.3	19	24.8
200	34.8	39.8	37.8	16.4	18.8
250	39.4	38.3	36.3	15.6	16.8