

# ENERLINE

## UTPCAT6BC

### DESCRIPTION

UTP CAT6 4 Pair 305Meters  
Soild 23AWG Bare Copper PVC Jacket

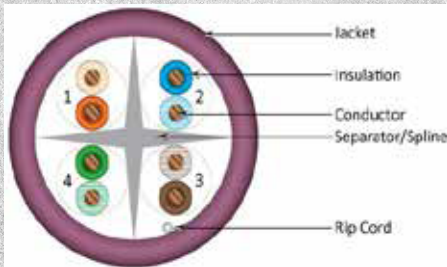
### FEATURES

- ☒ High-Performance Data Cable
- ☒ CAT6 Unshielded Twisted Pairs
- ☒ Easily Identified Color-Striped Pairs
- ☒ PVC Jacket
- ☒ Exceeds TIA/EIA-568C, 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>
AWG	Bare Copper
Conductor Diameter	23AWG
	4x2x0.56mm±0.01

#### Insulation

AVG. Thickness	<b>HDPE</b>
Insulation Diameter	0.21 ± 0.01 mm
	0.98 ± 0.01mm

#### Separator

<b>High twisted &amp; Ripcord</b>	<b>PP</b>
	<b>Yes</b>

#### Jacket

AVG. Thickness	<b>PVC</b>
Outer Diameter	0.58 mm
Color	6.2mm± 0.1mm
Marking	Available
	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	10.8 KG For 305Meter
Gross Weight	11.2 KG For 1 Roll
Bending Radius	≥ 4xOD(without load)
Temperature range	during operation : -40°C ~ 75°C
Reference Standard	during installation : 0°C ~ 60°C
Casung Tension	1.4 Kgf/mm 2 Min
Casung elongation	100% Min
PVC Tensile Strength(Mpa)	≥13.8

#### Electrical Properties

DC resistance	Max 9 Ω / 100 m at 20 °C
Insulation Resistance	5000mΩ/km
1.0 - 100 MHz Impedance	100 ± 15 (Ohms)
100 - 250 MHz Impedance	100 ± 15 (Ohms)
250 - 550 MHz Impedance	100 ± 35 (Ohms)
1.0 - 250 MHz Delay Skew	≤ 45
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