

ENERLINE

UTPCAT5E100

DESCRIPTION

UTP CAT5E 4 Pair 24AWG 100Meters
Solid CCA PVC Jacket

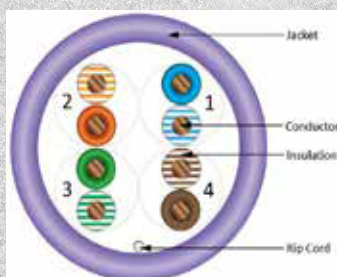
FEATURES

- High-Performance Data Cable
- CAT5E Unshielded Twisted Pairs
- Easily Identified Color-Striped Pairs
- 24AWG CCA Conductors
- TIA/EIA-568B.2, ISO/IEC 11801

APPLICATION

IEEE 802.3: 1000Base-T; 100Base-T; 10Base-T
IEEE 802.5: 4/6 Mbps Token Ring
Structure Cabling ,155Mbps ATM , ISDN
Gigabit Ethernet

STRUCTURE



SPECIFICATION

Technical Data

DC resistance	Max 26 Ω / 100 m
Rated Voltage	30V
Reference Standard	EIA/TIA 568 & ISO/IEC 11801

Conductor

Material	Copper Clad Aluminum
AWG	24AWG
Conductor Diameter	4×2×1/0.5mm±0.01

Insulation

Material	PE
AVG. Thickness	0.21 ± 0.01 mm
Insulation Diameter	0.90 ± 0.01mm

High twisted & Ripcord

Jacket

AVG. Thickness	0.56 mm
Outer Diameter	5.2 ± 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

CCA

Copper Clad Aluminum
24AWG
4×2×1/0.5mm±0.01

HDPE

PE
0.21 ± 0.01 mm
0.90 ± 0.01mm

Yes

PVC

0.56 mm
5.2 ± 0.1mm
Available
Available

PERFORMANCE

Mechanical Properties

Net Weight	2.1 KG For 100Meter
Gross Weight	2.8KG For 1 Box
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

Electrical Properties

DC resistance	Max 26 Ω / 100 m at 20 °C
Insulation Resistance	5000mΩ/km
Resistance unbalance	Max 5 % at 20 °C
Mutual capacitance	Max 5.6 nf / 100 m at 1kHz
Cap. unbalance to ground	Max 330 pf / 100 m at 1kHz
Characteristics impedance	(100±15) Ω at 1 ~ 100 Mhz
Nominal velocity of	67%
Propagation delay	≤ 535 ns / 100 m
Delay skew	≤ 45ns / 100 m

Frequency (MHZ)	Attenuation (dB/100m)	RL d(B)	Next (dB)	PS Next (db/100m)
1	2	20	65,3	63,5
4	4,1	23	56,3	54,3
8	5,8	24,5	52,4	50,5
10	6,6	25	51,3	49,2
16	8,2	25	49,3	47,4
20	9,3	25	48,8	46,9
25	10,4	24	45,3	43,4
31,25	11,7	23	43	41,8
62,5	17	21	39,2	37,2
100	22	20	36,3	34,4