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

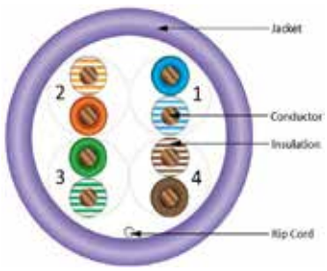
IEEE 802.3: 1000Base-T; 100Base-T; 10Base-T

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 — CCA

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

Insulation — HDPE

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

High twisted & Ripcord — **Yes**

Jacket — PVC

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

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 ºC
Insulation Resistance	5000mΩ/km
Resistance unbalance	Max 5 % at 20 ºC
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