



Standards

- CAT5e ANSI/TIA/568.2-D 100 MHz GENELEC EN 50288-3
- CAT5e IEC 61156-5 (ISO/IEC-11801 2.)

PHYSICAL AND MECHANICAL PROPERTIES

Basic Conductor	Solid, 24AWG, bare annealed copper
Conductor Size (mm)	0,52
Insulation	Polyolefin
Number of insulated conductors	8, twisted in 4 pairs
Color Code of Pairs	Blue x White/Blue, Orange x White/Orange, Green x White/Green, Brown x White/Brown
Overall Tape Wrap	Plastic tape, providing 100% coverage.
Outer Jacket	Heavy-duty, black, UV-resistant PE compound for outdoor use.
Standard Jacket Color	Black RAL 9005.
Standard Surface Marking	Includes ERAT P/N, cable description, Meter mark and Batch Number
Pulling force	50 N/mm2 max.
Short Term Bend Radius	8xOD (mm)
Long Term Bend Radius	4xOD (mm)
Storage Temperature	-20 to +80C
Temperature operating range	-20 to +60C
Installation temperature range	0 to +50C

ELECTRICAL SPECIFICATIONS

Characteristic Impedance	100±6 Ohm @ 1-100 MHz
DC Resistance	93 Ohm/Km max.
Resistance unbalance	2% max.
Capacitance	45 pF/m nom. @ 1 KHz
Cap. Unbalance (wire to ground)	1500 pF/Km max. @ 1 KHz.
Voltage rating	72 Vdc max.
Dielectric strength	1500 Volts/1 minute min rms
Velocity of Propagation (NVP)	67-69%
Insulation Resistance	5000 MegaOhm•Km min. @ 500 Vdc
Coupling attenuation	40 dB min @ 30-100 MHz

ORDERING INFORMATION

Erat Product Number	Description	Weight (kg/km)	OD (mm)	Packaging
EDC-24C5UPE1BC-100RL	4x2x24# U/UTP CAT 5e PE	37	5.60±0.3	100m Roll
EDC-24C5UPE1BC-500MK	Black			500m Drum