



### Standards

- ANSI/TIA/568.2-D
- IEC 61156-5 (ISO/IEC-11801 2.)
- CENELEC EN 50288-5

PHYSICAL AND MECHANICAL PROPERTIES	
Basic Conductor	Solid, 23AWG bare annealed copper
Conductor Size (mm)	0,55
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.
Outer Jacket Colour :	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 @ 1-250 MHz
DC Resistance	93.0 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%
Propagation Delay	514 + 36/f <sup>1/2</sup> nS/100m max @ 1-300 MHz
Propagation Delay Skew	35 nS/100m max @ 1-300 MHz
Insulation Resistance	5000 MegaOhm•Km min. @ 500 Vdc
Coupling attenuation	40 dB min @ 30-100 MHz 40-20Log(f/100) @100-300 MHz

ORDERING INFORMATION				
Erat Product Number	Description	Weight (kg/km)	OD (mm)	Packaging
EDC-23C6UPE1BC-100RL	4x2x23# U/UTP CAT 6 Outdoor PE Black	57	8.0±0.3	100m Roll
EDC-23C6UPE1BC-500MK				500m Drum