



- A1 Copper Conductor ● A2 Ground Wire ● A3 Copper Insulation ● A4 Separator (Star) ● A5 Polyester Tape
- A6 Aluminum Foil ● A7 Outer Jacket

Standards

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

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.
Ground wire	24 AWG solid tin-coated copper conductor laid in close contact under the shield.
Overall shield	Laminated aluminum foil (foil face in) providing 100% coverage.
Outer Jacket :	LSOH Halogen free flame retardant or PVC compound.
Standard Jacket Color :	Gray RAL 7001. Other colors available upon request.
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
Temperature operating range :	-20 to +60C
Flame Test :	IEC 60332-1

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 ^{1/2} nS/100m max @ 1-250 MHz
Propagation Delay Skew	45 nS/100m max @ 1-250 MHz
Insulation Resistance	5000 MegaOhm•Km min. @ 500 Vdc
Coupling attenuation	55 dB min @ 30-100 MHz 55-20Log(f/100) @100-250 MHz
Transfer Impedance	10 mOhm/m max @ 1-10 MHz 30 mOhm/m max @ 30 MHz

ORDERING INFORMATION

Erat Product Number	Description	Weight (kg/km)	OD (mm)	Packaging
EDC-23C6FULHG-500MK	4x2x23# F/UTP CAT 6 LSOH Grey	75	7.20±0.3	500m Drum