



Standards

- ANSI/TIA/568.2-D
- 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, Orange x White, Green x White, Brown x White
Individual pair shield	Laminated aluminum foil (foil face outward) providing 100% coverage.
Drain wire	Solid, 24AWG, 0.51 mm, tin-coated annealed copper
Overall shield	Polyester-aluminum tape (foil face inward) providing 100% coverage.
Outer Jacket	LS0H 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/mm ² max.
Short Term Bend Radius	8xOD mm
Long Term Bend Radius	4xOD mm
Storage Temperature	-20 to +80C
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)	78-80%
Propagation Delay	514 + 36/f ^{1/2} nS/100m max @ 1-250 MHz
Propagation Delay Skew	25 nS/100m max @ 1-250 MHz
Insulation Resistance	5000 MegaOhm•Km min. @ 500 Vdc
Coupling attenuation	85 dB min @ 30-100 MHz 85-20Log(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-23C6FLLHG-500MK	4x2x23# F/FTP CAT 6 LS0H Grey	62	7.90±0.3	500m Drum