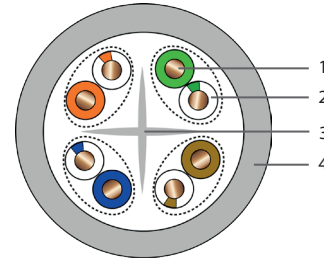
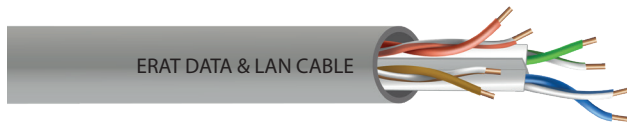


CAT 6E U-UTP 23 AWG DATA CABLE



WHERE IT IS USED/ FEATURES	CABLE STRUCTURE
<p>ERAT CAT 6E cables transmit digital and analog audio, data and video, POE signals. used for transportation.</p> <p>ERAT CAT 6E U/UTP cables, cable carrying data at 400 MHz 1 Gbps/sec is the type. To minimize the interaction of cable pairs, It is sheathed using a separator. Production is made with LSZH-HFFR and PVC sheathing according to customer demands.</p> <ul style="list-style-type: none"> • 1000BASE-TX Gigabit Ethernet • 1000BASE-T Gigabit Ethernet • ATM 155 / ATM 25 • 100BASE-T "Fast Ethernet" • 100BASE-T2/ 100BASE-T4 • 100BASE-TX • 10BASE-T Ethernet • ISDN, TPDDI, TP-PMD • Power Over Ethernet (PoE) 	<ol style="list-style-type: none"> 1. Copper Conductor 2. PE Insulation 3. Separator 4. Outer Jacket

PHYSICAL PROPERTIES	
Conductive	Solid, annealed copper
Conductor Diameter	23 AWG
Insulation	Polyolefin
Number of Insulated Conductors	8, twisted in 4 pairs
Outer Jacket	LSZH (Low Smoke Zero Halogen) flame retardant or PVC component
Jacket Color	Gray. (Ral 7040) (Different colors can be produced according to customer demand.)
Cable information the text	Brand, Type of cable, Relevant standards, Date, Serial number, Meter

MECHANICAL AND ENVIRONMENTAL PROPERTIES	
Pulling Force	50 N / mm ² max
Bending Radius (Short Term)	4 x Cable Diameter
Bending Radius (Long Term)	8 x Cable Diameter
Operating Temperature	-40 to +70 °C
Installation Temperature	-10 to +50 °C
Storage Temperature	-40 to +70 °C

CAT 6E U-UTP 23 AWG DATA CABLE

PACKAGING & SIZE & WEIGHT

Packaging Type	Outer Diameter (mm)	Approximate Weight (kg)
100 m Roll	6.3±0.3	5
305 m Box	6.3±0.3	16
500 m Plywood Reel	6.3±0.3	24.3
1000 m Plywood Reel	6.3±0.3	48.2

ELECTRICAL SPECIFICATIONS

Characteristic Impedance	100±6 Ohm @ 1-600 MHz
DC Resistance	80 Ohm/km max.
Resistance Unbalance	2% max.
Capacitance	56 pF/m nom. @ 1 KHz
Capacity Imbalance (Wire to ground)	1600 pF/km max. @ 1 KHz.
Voltage	72 Vdc max.
Dielectric Strength	1.7 kV a.c. / 2 seconds
Velocity of Propagation (NVP)	Min. % 67 - 69
The Signal Transmission Time (Prop. Delay)	534 + 36/f ^{1/2} nS/100m max @ 1-600 MHz
Propagation Delay Skew	45 nS/100m max @ 1-600 MHz
Insulation Resistance	5000 MegaOhm·km min. @ 500 Vdc

Frequency (MHz)	Return Loss (dB)	Insertion Loss (dB)	NEXT Loss (dB)	PS NEXT Loss (dB)	ACRF (dB)
	Min.	Max.	Min.	Min.	Min.
1	19,1	1,9	65,0	62,0	64,2
4	21,0	3,5	64,1	61,8	52,1
8	21,0	5,0	59,4	57,0	46,1
10	21,0	5,5	57,8	55,5	44,2
16	20,0	7,0	54,6	52,2	40,1
20	19,5	7,9	53,1	50,7	38,2
25	19,0	8,9	51,5	49,1	36,2
31,25	18,5	10,0	50,0	47,5	34,3
62,5	16,0	14,4	45,1	42,7	28,3
100	14,0	18,6	41,8	39,3	24,2
200	11,0	27,4	36,9	34,3	18,2
250	10,0	31,1	35,3	32,7	16,2
350	8,6	37,9	32,9	30,3	13,3
400	8,0	41,1	32,0	29,3	12,1
500	7,0	47,1	30,4	27,6	10,2
600	6,2	52,7	29,0	26,3	8,6

ISOLATED COLORS

Blue	Blue/White	Orange	Orange /White	Green	Green /White	Brown	Brown/White