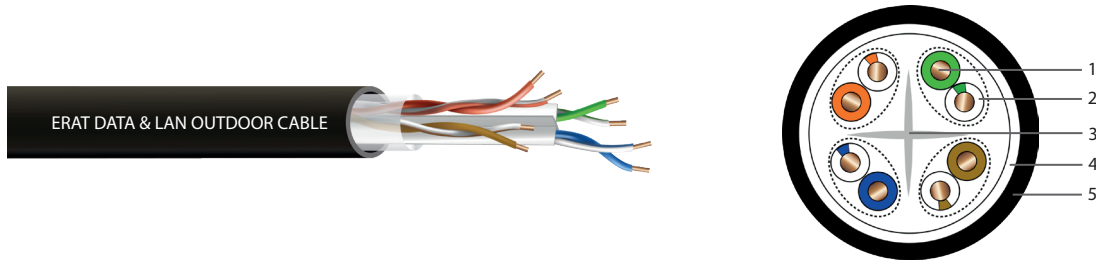


CAT 6E U-UTP 23 AWG OUTDOOR DATA CABLE



WHERE IT IS USED/ FEATURES	CABLE STRUCTURE
ERAT CAT 6E Outdoor UV resistant, black PE sheathed cables, external Suitable for applications in severe conditions. Digital, analog voice, data, video and POE It is used to carry signals. ERAT CAT 6E U/UTP cables, cable carrying data at 250 MHz 1 Gbps/sec is the type. Outer sheath production with HFFR or different features according to customer demand is being done. • 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)	1. Copper Conductor 2. PE Insulation 3. Separator 4. Polyester Tape 5. Outer Jacket

PHYSICAL PROPERTIES	
Conductive	Solid, annealed copper
Conductor Diameter	23 AWG
Insulation	Polyolefin
Number of Insulated Conductors	8, twisted in 4 pairs
Polyester Tape Wrap	Polyester Tape provides 100% coverage
Outer Jacket	Resistant to outdoor conditions, fully compatible with PE Th and UV conditions
Jacket Color	Black. (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	60 N / mm ² max
Bending Radius (Short Term)	4 x Cable Diameter
Bending Radius (Long Term)	8 x Cable Diameter
Operating Temperature	-40 to +80 °C
Installation Temperature	-10 to +60 °C
Storage Temperature	-40 to +80 °C

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PACKAGING & SIZE & WEIGHT

Packaging Type	Outer Diameter (mm)	Approximate Weight (kg)
100 m Roll	6.3±0.3	4.5
305 m Box	6.3±0.3	14
500 m Plywood Reel	6.3±0.3	21.8
1000 m Plywood Reel	6.3±0.3	43.2

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	35 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