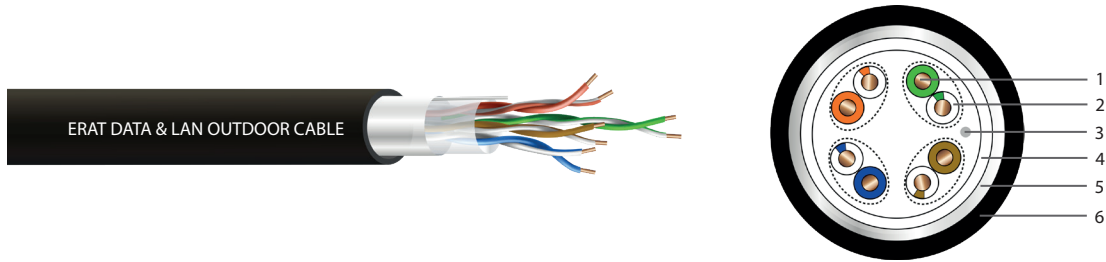


CAT 5E F-UTP 24 AWG OUTDOOR DATA CABLE



WHERE IT IS USED/ FEATURES	CABLE STRUCTURE
<p>ERAT CAT 5E Outdoor UV resistant, black PE outer sheathed cables are suitable for severe conditions for external applications. The cat CAT 5E outdoor (Outdoor) UV resistant, black PE outer sheathed cables are suitable for severe conditions for external applications. It is widely used in network systems</p> <p>CAT 5E F/UTP cables are a type of cable that carries 100Mbit/sec data at 100 MHz. UV resistant, black PE Outer Jacket covers the cables produced.</p> <ul style="list-style-type: none"> • 10BASE-T Ethernet • ISDN, TPDDI, TP-PMD • Power Over Ethernet (PoE) • 100BASE-T "Fast Ethernet" • 100BASE-T2/ 100BASE-T4 • 100BASE-TX 	<ol style="list-style-type: none"> 1. Copper Conductor 2. PE Insulation 3. Ground Wire 4. Polyester Tape 5. Aluminium Foil 6. Outer Jacket

PHYSICAL PROPERTIES	
Conductive	Solid, annealed copper
Conductor Diameter	24 AWG
Insulation	Polyolefin
Number of Insulated Conductors	8, twisted in 4 pairs
Polyester Tape Wrap	Polyester Tape provides 100% coverage
Ground Wire	Solid, tin-coated annealed copper
Overall Inner Shield	Laminated aluminum foil providing 100% coverage (foil face is introverted)
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)
500 m Plywood Reel	6.0±0.3	18.3
1000 m Plywood Reel	6.0±0.3	36.2

ELECTRICAL SPECIFICATIONS	
Characteristic Impedance	100±6 Ohm @ 1-100 MHz
DC Resistance	93 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
Insulation Resistance	5000 MegaOhm·km min. @ 500 Vdc
Coupling attenuation	55 dB min @ 30-100 MHz 55-20Log(f/100)
Transfer Impedance	50 mOhm/m max. @ 1-30 MHz

Frequency (MHz)	Return Loss (dB)	Insertion Loss (dB)	NEXT Loss (dB)	PS NEXT Loss (dB)	ACRF (dB)
	Min.	Max.	Min.	Min.	Min.
1.00	19.0	2.1	60.0	57.0	58.6
4.00	19.0	3.9	54.8	51.8	46.6
8.00	19.0	5.5	50.0	47.0	40.6
10.00	19.0	6.2	48.5	45.5	38.6
16.00	19.0	7.9	45.2	42.2	34.5
20.00	19.0	8.9	43.7	40.7	32.6
25.00	18.0	10.0	42.1	39.1	30.7
31.25	17.1	11.2	40.5	37.5	28.7
62.50	14.1	16.2	35.7	32.7	22.7
100.00	12.0	21.0	32.3	29.3	18.6

ISOLATED COLORS							
							
Blue	Blue/White	Orange	Orange /White	Green	Green /White	Brown	Brown/White