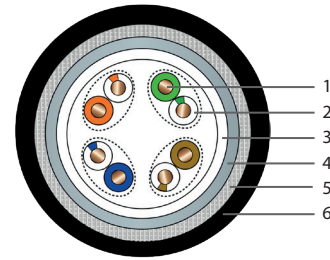


## CAT 5E SF-UTP 24 AWG OUTDOOR DATA CABLE



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

PHYSICAL PROPERTIES	
<b>Conductive</b>	Solid, annealed copper
<b>Conductor Diameter</b>	24 AWG
<b>Insulation</b>	Polyolefin
<b>Number of Insulated Conductors</b>	8, twisted in 4 pairs
<b>Polyester Tape Wrap</b>	Polyester Tape provides 100% coverage
<b>Overall Inner Shield</b>	Laminated aluminum foil providing 100% coverage (the foil face is turned outwards)
<b>Copper Braid</b>	Tinned Copper Braid
<b>Outer Jacket</b>	Resistant to outdoor conditions, fully compatible with PE Th and UV conditions
<b>Jacket Color</b>	Black. (Different colors can be produced according to customer demand.)
<b>Cable information the text</b>	Brand, Type of cable, Relevant standards, Date, Serial number, Meter









MECHANICAL AND ENVIRONMENTAL PROPERTIES	
<b>Pulling Force</b>	60 N / mm <sup>2</sup> max
<b>Bending Radius (Short Term)</b>	4 x Cable Diameter
<b>Bending Radius (Long Term)</b>	8 x Cable Diameter
<b>Operating Temperature</b>	-40 to +80 °C
<b>Installation Temperature</b>	-10 to +60 °C
<b>Storage Temperature</b>	-40 to +80 °C

## CAT 5E SF-UTP 24 AWG OUTDOOR DATA CABLE

PACKAGING & SIZE & WEIGHT		
Packaging Type	Outer Diameter (mm)	Approximate Weight (kg)
500 m Plywood Reel	6.4±0.3	21.8
1000 m Plywood Reel	6.4±0.3	43.2

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	30 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