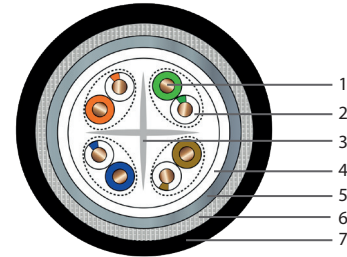


## CAT 6 SF-UTP 23 AWG OUTDOOR DATA CABLE



WHERE IT IS USED/ FEATURES	CABLE STRUCTURE
<p>ERAT CAT 6 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.</p> <p>ERAT CAT 6 SF/UTP cables, cable carrying data at 250 MHz 1 Gbps/sec is the type. To minimize the interaction of cable pairs, It is sheathed using a separator. HFFR or different according to customer demand Outer casing is produced with different specifications.</p> <ul style="list-style-type: none"> <li>• 1000BASE-TX Gigabit Ethernet</li> <li>• 1000BASE-T Gigabit Ethernet</li> <li>• ATM 155 / ATM 25</li> <li>• 100BASE-T "Fast Ethernet"</li> <li>• 100BASE-T2/ 100BASE-T4</li> <li>• 100BASE-TX</li> <li>• 10BASE-T Ethernet</li> <li>• ISDN, TPDDI, TP-PMD</li> <li>• Power Over Ethernet (PoE)</li> </ul>	<ol style="list-style-type: none"> <li>1. Copper Conductor</li> <li>2. PE Insulation</li> <li>3. Separator</li> <li>4. Polyester Tape</li> <li>5. Aluminium Foil</li> <li>6. Tinned Copper Braid</li> <li>7. Outer Jacket</li> </ol>

### PHYSICAL PROPERTIES

<b>Conductive</b>	Solid, annealed copper
<b>Conductor Diameter</b>	23 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>Overall Outer Shield</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 6 SF-UTP 23 AWG OUTDOOR DATA CABLE

### PACKAGING & SIZE & WEIGHT







Packaging Type	Outer Diameter (mm)	Approximate Weight (kg)
500 m Plywood Reel	7.8±0.3	26
1000 m Plywood Reel	7.8±0.3	55

### ELECTRICAL SPECIFICATIONS

<b>Characteristic Impedance</b>	100±6 Ohm @ 1-250 MHz
<b>DC Resistance</b>	82 Ohm/km max.
<b>Resistance Unbalance</b>	2% max.
<b>Capacitance</b>	56 pF/m nom. @ 1 KHz
<b>Capacity Imbalance (Wire to ground)</b>	1600 pF/km max. @ 1 KHz.
<b>Voltage</b>	72 Vdc max.
<b>Dielectric Strength</b>	1.7 kV a.c. / 2 seconds
<b>Velocity of Propagation (NVP)</b>	Min. %67 - 69
<b>The Signal Transmission Time (Prop. Delay)</b>	534 + 36/f <sup>1/2</sup> nS/100m max @ 1-250 MHz
<b>Propagation Delay Skew</b>	45 nS/100m max @ 1-250 MHz
<b>Insulation Resistance</b>	5000 MegaOhm·km min. @ 500 Vdc
<b>Coupling attenuation</b>	55 dB min @ 30-100 MHz 55-20Log(f/100) @100-250 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	19.1	1.9	65.0	62.0	64.2
4.00	21.0	3.5	64.1	61.8	52.1
8.00	21.0	5.0	59.4	57.0	46.1
10.00	21.0	5.5	57.8	55.5	44.2
16.00	20.0	7.0	54.6	52.2	40.1
20.00	19.5	7.9	53.1	50.7	38.2
25.00	19.0	8.9	51.5	49.1	36.2
31.25	18.5	10.0	50.0	47.5	34.3
62.50	16.0	14.4	45.1	42.7	28.3
100.00	14.0	18.6	41.8	39.3	24.2
200.00	11.0	27.4	36.9	34.3	18.2
250.00	10.0	31.1	35.3	32.7	16.2

### ISOLATED COLORS

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