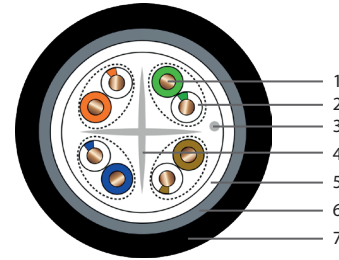
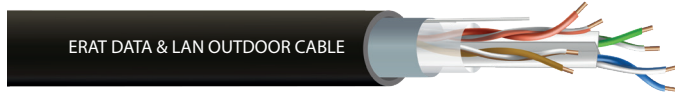


CAT 6 F-UTP 23 AWG OUTDOOR DATA CABLE



| 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 F/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"> • 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. Ground Wire 4. Separator 5. Polyester Tape 6. Aluminium Foil 7. 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 |
| 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 |

CAT 6 F-UTP 23 AWG OUTDOOR DATA CABLE

| PACKAGING & SIZE & WEIGHT | | |
|---------------------------|---------------------|-------------------------|
| Packaging Type | Outer Diameter (mm) | Approximate Weight (kg) |
| 500 m Plywood Reel | 7.5±0.3 | 25 |
| 1000 m Plywood Reel | 7.5±0.3 | 50.2 |

| ELECTRICAL SPECIFICATIONS | |
|--|---|
| Characteristic Impedance | 100±6 Ohm @ 1-250 MHz |
| DC Resistance | 82 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 @ 1-250 MHz |
| Propagation Delay Skew | 45 nS/100m max @ 1-250 MHz |
| Insulation Resistance | 5000 MegaOhm·km min. @ 500 Vdc |
| Coupling attenuation | 55 dB min @ 30-100 MHz 55-20Log(f/100) @100-250 MHz |
| Transfer Impedance | 10 mOhm/m max @ 1-10 MHz 30 mOhm/m max @ 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 | 19.1 | 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 |