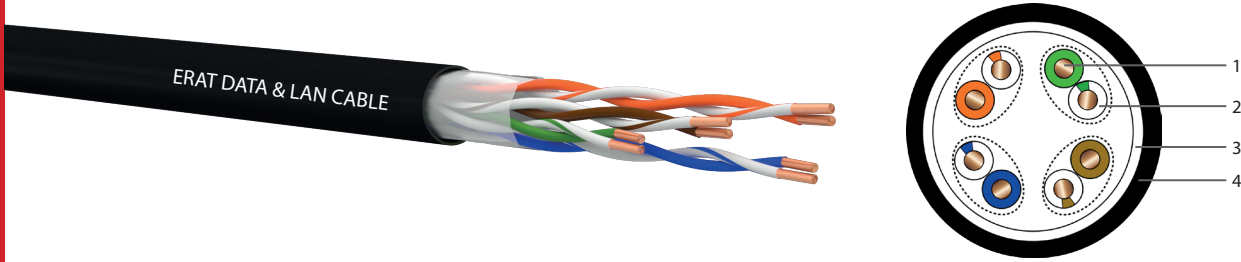


## CAT 5E U-UTP 24 AWG OUTDOOR DATA CABLE



| AREAS OF USE / FEATURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CABLE CONSTRUCTION                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>ERAT CAT 5E Outdoor cables are designed for outdoor installations and harsh environmental conditions. Featuring a UV-resistant black PE outer jacket, they are suitable for outdoor applications and are widely used in network cabling systems.</p> <p>ERAT CAT 5E U/UTP cables support data transmission rates of up to 100 Mbps with an operating bandwidth of 100 MHz. They provide high transmission performance and are less susceptible to external interference.</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 Isolated</li> <li>3. Polyester Tape</li> <li>4. Outer Sheath</li> </ol> |

| PHYSICAL PROPERTIES               |                                                                                                   |
|-----------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Conductor</b>                  | Pure, annealed copper                                                                             |
| <b>Conductor Diameter</b>         | 24 AWG                                                                                            |
| <b>Isolated</b>                   | Polyolefin                                                                                        |
| <b>Number of Isolates</b>         | 8, in 4 twisted pairs                                                                             |
| <b>Polyester Tape Wrap</b>        | Polyester tape provides 100% coverage.                                                            |
| <b>Outer Sheath</b>               | UV-resistant and weather-resistant PE compound suitable for outdoor installation.                 |
| <b>Jacket Color</b>               | Black. (Different colors can be produced upon customer request.)                                  |
| <b>Performance Guarantee</b>      | A 25-year system performance guarantee is offered when end-to-end ERAT-branded products are used. |
| <b>Cable Labeling Information</b> | Brand, Cable type, Relevant standards, Date, Serial number, Meters                                |

| MECHANICAL AND ENVIRONMENTAL PROPERTIES |                            |
|-----------------------------------------|----------------------------|
| <b>Tensile 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 U-UTP 24 AWG OUTDOOR DATA CABLE

### PACKAGING, DIMENSIONS & WEIGHT

| Packaging Type      | Outer Diameter (mm) | Approximate Weight (kg) |
|---------------------|---------------------|-------------------------|
| 100 m Roll          | 5.9±0.3             | 3.0                     |
| 305 m Box           | 5.9±0.3             | 9.15                    |
| 500 m Plywood Reel  | 5.9±0.3             | 15.0                    |
| 1000 m Plywood Reel | 5.9±0.3             | 30                      |

### ELECTRICAL PROPERTIES

|                                   |                                |
|-----------------------------------|--------------------------------|
| Impedance Characteristic          | 100±6 Ohm @ 1-100 MHz          |
| DC Resistance                     | 93 Ohm/km max.                 |
| Resistance Imbalance              | 2% max.                        |
| Effective Capacity                | 56 pF/m nom. @ 1 KHz           |
| Capacitance Imbalance (to Ground) | 1600 pF/km max. @ 1 KHz.       |
| Voltage                           | 72 Vdc max.                    |
| Dielectric Strength               | 1.7 kV AC / 2 seconds          |
| Signal Speed (NVP)                | Min. % 67 - 69                 |
| Insulation Resistance             | 5000 MegaOhm•km min. @ 500 Vdc |
| Transfer Impedance                | N/A                            |

| 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                                                                       | Yellow                                                                              | Yellow /White                                                                         | Brown                                                                                 | Brown/White                                                                           |