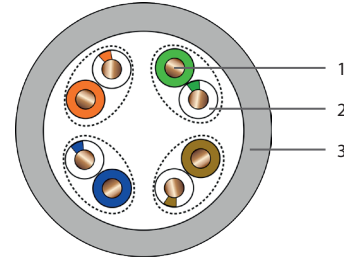
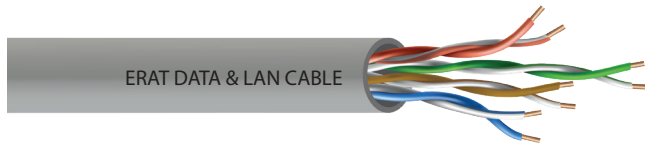


## CAT 5E U-UTP 24 AWG DATA CABLE

IEC 61156-5+A1



WHERE IT IS USED/ FEATURES	CABLE STRUCTURE
<p>All Category 5E cables are widely used in Network systems.</p> <p>ERAT CAT 5E U/UTP cables are a type of cable carrying 100Mbit/s data at a speed of 100 MHz. It provides high data migration and is less affected by foreign signals. According to customer demands, production is carried out with LSZH-HFFR and PVC sheaths.</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. 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>Outer Jacket</b>	LSZH (Low Smoke Zero Halogen) flame retardant or PVC component
<b>Jacket Color</b>	Gray. (Ral 7040) (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>	50 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 +70 °C
<b>Installation Temperature</b>	-10 to +50 °C
<b>Storage Temperature</b>	-40 to +70 °C

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

PACKAGING & SIZE & WEIGHT		
Packaging Type	Outer Diameter (mm)	Approximate Weight (kg)
100 m Roll	5.9±0.3	3.9
305 m Box	5.9±0.3	12.17
500 m Plywood Reel	5.9±0.3	18.8
1000 m Plywood Reel	5.9±0.3	37.2

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
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	Green	Green /White	Brown	Brown/White