

Y-C879GY

# Cat 5e UTP Cable

## 305M Length for Customized Cable Conjunction



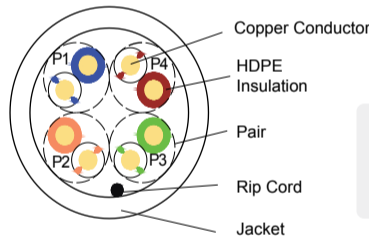
### Products Features

- Cat5e standard allows sending up to 1 Gigabit data per second under the 100MHz bandwidth, provides a speedy and stable signal connection.
- UTP (Unshielded Twisted Pairs structure) refers to be surrounded by an outer jacket without a metallic shield. This helps the cable to be small in diameter.
- Performance is qualified under the Fluke Networks industrial standard.
- Applicable to computers, laptops, printers, modems, routers.

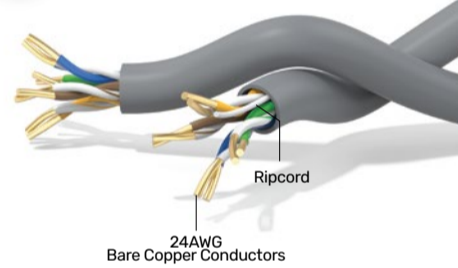


### Mechanical Specifications

|                 |                         |
|-----------------|-------------------------|
| Outer Diameter  | Ø 4.8+/-0.3 mm          |
| Conductor Type  | 24AWG solid bare copper |
| Jacket Material | PVC                     |
| Standard Colour | Grey                    |



Core:  
 P1: White-Blue/Blue  
 P2: White-Orange/Orange  
 P3: White-Green/Green  
 P4: White-Brown/Brown



### Mechanical Characteristics

|                                 |          |
|---------------------------------|----------|
| Cable under the minimum tension | ≥400N    |
| Conductor elongation            | ≥15%     |
| <b>Jacket before Aging</b>      |          |
| Tensile Strength                | ≥13.5Mpa |
| Elongation                      | ≥150%    |
| <b>Jacket After Aging</b>       |          |
| Tensile Strength                | ≥12.5Mpa |
| Elongation                      | ≥125%    |

### Electrical Characteristics

|                                      |                    |
|--------------------------------------|--------------------|
| Impedance                            | 1-100MHz 100±15(Ω) |
| Rated Temperature                    | 75°C               |
| DC Resistance Unbalance(%)           | Max 2.5            |
| DC Resistance 20°C                   | ≤110(Ω/Km)         |
| Pair-to-Ground Capacitance Unbalance | 330(pF/100M)       |
| Insulation Resistance                | >5000MΩ*Km         |
| Dielectric strength                  | DC 2500V 2S        |

### Nominal Transmission Characteristics

| Frequency (MHz) | Min. RL (dB) | Nom. IL* (dB/100M) | Max. DOP (ns/100M) | Max. SKEW (ns/100M) | Min. NEXT (dB) | Min. PSNEXT (dB) | Min. ACR-F (dB/100M) | Min. PSACR-F (dB/100M) |
|-----------------|--------------|--------------------|--------------------|---------------------|----------------|------------------|----------------------|------------------------|
| 1               | 20.0         | 2.0                | 570.0              | 45.0                | 65.3           | 62.3             | 63.8                 | 60.8                   |
| 4               | 23.0         | 4.1                | 552.0              | 45.0                | 56.3           | 53.3             | 51.8                 | 48.8                   |
| 10              | 25.0         | 6.5                | 545.4              | 45.0                | 50.3           | 47.3             | 43.8                 | 40.8                   |
| 16              | 25.0         | 8.2                | 543.0              | 45.0                | 47.2           | 44.2             | 39.7                 | 36.7                   |
| 20              | 25.0         | 9.3                | 542.1              | 45.0                | 45.8           | 42.8             | 37.8                 | 34.8                   |
| 31.25           | 23.6         | 11.7               | 540.4              | 45.0                | 42.9           | 39.9             | 33.9                 | 30.9                   |
| 62.5            | 21.5         | 17.0               | 538.6              | 45.0                | 38.4           | 35.4             | 27.9                 | 24.9                   |
| 100             | 20.1         | 22.0               | 537.6              | 45.0                | 35.3           | 32.3             | 23.8                 | 20.8                   |

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested

\* Allowable deviation of -10% to +10%