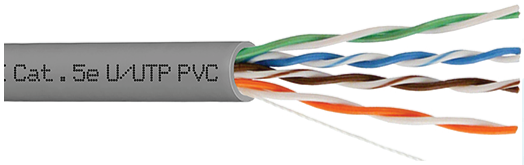
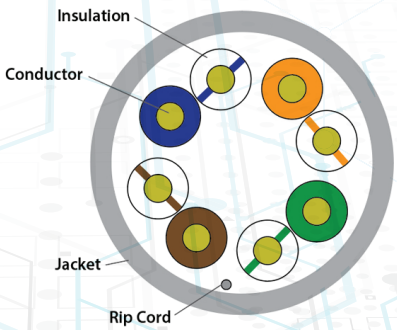
# CAT.5e U/UTP 24AWG PVC CABLE

APTEK
GIGANETWORK CABLES




| Product Description | |
|---|---|
| 1 | Inner Conductor |
| 2 | Insulation |
| 3 | Ripcord |
| 4 | Jacket |

## Application

- Voice, ISDN
- 100BASE-T Ethernet (IEEE802.3)
- 155/622Mbps 1.2/2.4 Gbps ATM
- 1000Mbps Gigabit Ethernet
- 550MHz Broadband Video
- PoE over Ethernet

## Standard

- ANSI/TIA-568-2.D Cat.5e
- ISO/IEC 2nd Edition 11801 Class D
- IEEE 802.3af-2003, 802.3at-2009, IEEE 802.3bt

| Construction Item Description | | |
|---|---|---|
| Conductor | Material | Solid Bare Copper |
| | Size | 24 AWG x 4 Pair |
| Insulation | Material | HDPE |
| | Outside Diameter | 0.863 mm |
| | Average Thickness | 0.182 mm |
| | Color | 1. Blue x White / Blue |
| | | 2. Orange x White / Orange |
| | | 3. Green x White / Green |
| | | 4. Brown x White / Brown |
| Jacket | Material | PVC, 60P, -20~75°C |
| | Outside Diameter | 5.1 ± 0.1mm |
| | Average Thickness | 0.50 ~ 0.54mm |
| | Color | Grey |

| Electrical Property | |
|---|---|
| Conductor Resistance at 20°C | Max. 9.38 Ω / 100m |
| Resistance unbalance within a pair | Max. 5% |
| Mutual Capacitance | Max. 5600 pF / 100m |
| Pair-to-Ground Capacitance Unbalance | Max. 330 pF/100m |
| Characteristic impedance at 100MHz | 100 ±15 Ω |
| Propagation Delay | Max. 45ns / 100m |

# CAT.6 U/UTP 23AWG PVC CABLE

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| Mechanical Properties | |
|---|---|
| **INSULATION** | |
| Min. Tension Strength Before Aging | 1.683 Kgf/ mm² |
| Min. Tension Strength After Aging | 75% before aging (100°C X 48hrs) |
| Min. Elongation (%) Before Aging | 300% |
| Min. Elongation (%) After Aging | 75% before aging (100°C X 48hrs) |

| JACKET | |
|---|---|
| Min. Tension Strength Before Aging | 1.407 Kgf/ mm² |
| Min. Tension Strength After Aging | 75% before aging (100°C X 168hrs) |
| Min. Elongation (%) Before Aging | Min. 100% |
| Min. Elongation (%) After Aging | 50% before aging (100°C X 168hrs) |
| Installation Temperature | 0 °C to 50 °C |
| Operating Temperature | -20 to +70 |

| Performance Statistics | | | |
|---|---|---|---|
| **Frequency Mhz** | **Insertion Loss dB/100mtrs** | **NEXT (dB)** | **PSNEXT (dB) Min** |
| 1 | 2.0 | 65.3 | 62.3 |
| 4 | 4.1 | 56.3 | 53.3 |
| 8 | 5.8 | 51.8 | 48.8 |
| 10 | 6.5 | 50.3 | 47.3 |
| 16 | 8.2 | 47.2 | 44.2 |
| 20 | 9.3 | 45.8 | 42.8 |
| 25 | 10.4 | 44.3 | 41.3 |
| 31.25 | 11.7 | 42.9 | 39.9 |
| 62.5 | 17.0 | 38.4 | 35.4 |
| 100 | 22.0 | 35.3 | 32.3 |
| 125 | 24.9 | 33.8 | 30.8 |

| Part number | Description |
|---|---|
| **530-1101-2** | Cat.5e U/UTP Unshielded Cable, 4 Pair, 24AWG, PVC Grey, 305m/roll |