



CATEGORY  
**ELECTRICAL  
WIRES**

AMMO ITEM #

**CAT5 WIRE**

Company: \_\_\_\_\_  
Job: \_\_\_\_\_ #Item: \_\_\_\_\_  
Notes: \_\_\_\_\_

## UTP CAT5E



### APPLICATION

- IEEE 802.3:1000BASE-T,100BASE-TX,10BASE-T
- IEEE 802.5: 4/6Mbps Token Ring
- ANSI X3.263: 100 Mb/s
- Gigabit Ethernet

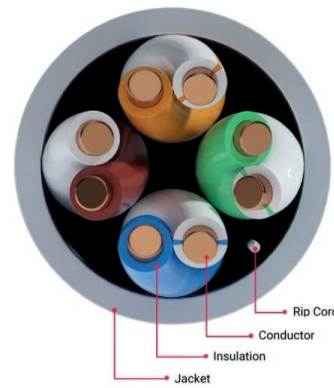
### STANDARD COMPLIANCES

- ANSI/TIA 568-B
- ISO/IEC 11801
- ANSI/TIA/EIA-568-B

### CONSTRUCTION CHARACTERISTICS

|            |                                 |               |
|------------|---------------------------------|---------------|
| Conductor  | Material                        | CCA           |
|            | AWG                             | 24            |
|            | Diameter (±0.00039 in)          | 0.0197 in     |
| Insulation | Material                        | HD-PE         |
|            | Average Thickness (±0.00039 in) | 0.0083        |
|            | Diameter (±0.0004 in)           | 0.0354        |
|            | Min.Point Thickness (in)        | 0.0075        |
| Jacket     | Material                        | PVC-CMR RATED |
|            | Outer Diameter (±0.0079 in)     | 0.197         |
|            | Min Thickness (±0.00039 in)     | 0.0217        |
|            | AVG.Thickness (in)              | 0.0236        |
|            | Rip Cord                        | Nylon         |

### CROSS SECTION



### PHYSICAL & ELECTRICAL PROPERTIES

- Impedance (ohms): \_\_\_\_\_ 100 ± 15
- Rated Temperature °F: \_\_\_\_\_ 167
- Delay Skew (ns/1000 ft): \_\_\_\_\_ ≤137.2
- DC Resistance 68 °F: \_\_\_\_\_ 22
- Pair-to-Ground Capacitance Unbalance (pF/1000 ft): \_\_\_\_\_ ≤1005.8
- Max. Conductor DC Resistance 68 °F (ohms/ft): \_\_\_\_\_ 22/1000
- Resistance Unbalance (%): \_\_\_\_\_ ≤5
- Insulation Resistance: \_\_\_\_\_ >16404 MΩ\*1000 ft
- Dielectric Strength: \_\_\_\_\_ DC 2500 V 2S

| AMMO#               | COLOR  | WEIGHT (lb) | PKG (ft)   | UPC          |
|---------------------|--------|-------------|------------|--------------|
| <b>CAT5E-CCA-B</b>  | Blue   | 33.07       | 1000 / box | 840526231683 |
| <b>CAT5E-CCA-W</b>  | White  | 33.07       | 1000 / box | 840526231690 |
| <b>CAT5E-CCA-GN</b> | Green  | 33.07       | 1000 / box | 840526231706 |
| <b>CAT5E-CCA-GY</b> | Gray   | 33.07       | 1000 / box | 840526231713 |
| <b>CAT5E-CCA-R</b>  | Red    | 33.07       | 1000 / box | 840526231720 |
| <b>CAT5E-CCA-Y</b>  | Yellow | 33.07       | 1000 / box | 840526231737 |

## ELECTRICAL WIRES



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## UTP CAT5E



Intertek

### MECHANICAL CHARACTERISTICS

- Test Object: \_\_\_\_\_ Jacket
- Test Material: \_\_\_\_\_ PVC
  - Before Tensile Strength (psi): \_\_\_\_\_  $\geq 2001.5$
  - Aging Elongation (%): \_\_\_\_\_  $\geq 100$
- Aging Condition ( $^{\circ}\text{F} \times \text{hrs}$ ): \_\_\_\_\_  $212 \times 168$ 
  - After Tensile Strength (Mpa): \_\_\_\_\_  $\geq 85\%$  of unaged
  - Aging Elongation (%): \_\_\_\_\_  $\geq 50\%$  of unaged

- Cold Bend ( $-4 \pm 3.6^{\circ}\text{F} \times 4 \text{ hrs}$ ): \_\_\_\_\_ No crack
- Bending Radius: \_\_\_\_\_  $\geq 4 \times \text{OD}$  (without load)
- Temperature Range: \_\_\_\_\_  $-40^{\circ}\text{F} \sim 167^{\circ}\text{F}$ 
  - During operation: \_\_\_\_\_  $-4^{\circ}\text{F} \sim 167^{\circ}\text{F}$
  - During installation: \_\_\_\_\_  $32^{\circ}\text{F} \sim 140^{\circ}\text{F}$
- Delay Skew: \_\_\_\_\_  $\leq 137.2$

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