

# CAT5E VOICE GRADE CABLE

## RISER RATED (CMR) / 25 PAIR

### 24 AWG 50 CONDUCTOR (UTP)

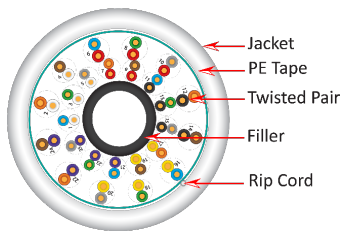


## DESCRIPTION

**CAT5E Multi-Pair, 350 MHz, CMR Rated/Unshielded**  
**25 Twisted Pairs (UTP) 50 24-AWG Solid Bare Copper**  
**Conductors.**

## FEATURES

- Supports 10/100/1000BASE-T applications
- Suitable for high speed voice/data applications
- 350-MHz bandwidth supporting wide range of applications
- 24 AWG Solid Copper Conductors
- Easily identifiable pair insulation colors
- Exceeds ANSI/TIA-568.2-D and ISO/IEC 11801 specifications
- CAN/CSA-C22.2 No. 214, RoHS compliant
- Riser Rated (CMR)
- ETL listed



## 054-SERIES (25 PAIR)

Part Number:	Description:
054-452WH	CAT5E Multi-Pair 25 Pair, 24 AWG, 500 - 1000 ft, White 133 lb (60 kg)
054-453GY	CAT5E Multi-Pair 25 Pair, 24 AWG, 500 - 1000 ft, Gray, 146 lb (66 kg)
054-454BL	CAT5E Multi-Pair 25 Pair, 24 AWG, 500 - 1000 ft, Blue 133 lb (60 kg)

### TRANSMISSION PERFORMANCE

Meets or exceeds ANSI/TIA-568.2-D and ISO/IEC 11801 specifications

### CONSTRUCTION

Pairs:	25
Conductors:	50
PE Tape:	1
Screen:	Unscreened (UTP)

### CONDUCTORS

Material:	Solid Bare Annealed Copper
Size:	24 AWG

### INSULATION

Material:	Polyethylene (PE)
Diameter:	0.0354 in. (0.90 mm)
Average thickness:	0.0062 in. (0.16 mm)

### CABLE CORE

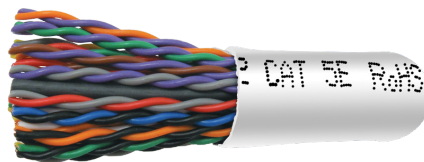
Total Mylar Spiral: ≥125%

**Color Coding (4 x 25 Twisted Pairs):**

**Pair 1:** White/Blue **Pair 2:** White/Orange **Pair 3:** White/Green  
**Pair 4:** White/Brown **Pair 5:** White/Gray **Pair 6:** Red/Blue **Pair 7:** Red/Orange  
**Pair 8:** Red/Green **Pair 9:** Red/Brown **Pair 10:** Red/Gray  
**Pair 11:** Black/Blue **Pair 12:** Black/Orange **Pair 13:** Black/Green  
**Pair 14:** Black/Brown **Pair 15:** Black/Gray **Pair 16:** Yellow/Blue  
**Pair 17:** Yellow/Orange **Pair 18:** Yellow/Green **Pair 19:** Yellow/Brown  
**Pair 20:** Yellow/Gray **Pair 21:** Purple/Blue **Pair 22:** Purple/Orange  
**Pair 23:** Purple/Green **Pair 24:** Purple/Brown **Pair 25:** Purple/Gray

### JACKET

Material:	Polyvinyl Chloride (PVC)
Outer diameter:	0.50 in. (12.50 mm)
Average thickness:	0.0393 in. (1.00 mm)
Marking:	VERTICAL 4001453 cETLus VERIFIED CMR UTP 25PR 24 AWG CAT5E 350 MHz ANSI/TIA-568.2-D RoHS XXXXFT



## VERTICAL CABLE

951.696.7772 California  
 800.749.2447 Florida  
 845.391.8318 New York  
 713.322.7242 Texas



verticalcable.com

Rev. 06/2025

Subject to change without notice.

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## RISER RATED (CMR) / 25 PAIR

### 24 AWG 50 CONDUCTOR (UTP)

#### ELECTRICAL

Voltage rating:	60 VRMS
Impedance:	100 ±15Ω
Delay Skew:	≤45 ns/100m
Pair-to-Ground Capacitance Unbalance:	≤330 pF/100m
Conductor Resistance @ 20°C:	95 DC Ω/km
DC Resistance Imbalance:	≤5%

#### MECHANICAL

Before Tensile Strength (Mpa):	≥13.8 MPa
Elongation After Aging (%):	≥100
Aging Conditions (° C × h):	100x168
Tensile Strength After Aging (Mpa):	≥85% of unaged
Elongation After Aging (%):	≥50% of unaged
Cold Bend (-40±2° Cx4hrs):	No Crack

#### ENVIRONMENTAL

Operating temperature:	-40 °F–167 °F (-40 °C–75 °C)
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#### WEIGHT

054-452WH	133 lb (60 kg)
054-453GY	146 lb (66 kg)
054-454BL	133 lb (60 kg)

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