

# CAT5e UTP CABLE CMP (PLENUM-RATED)

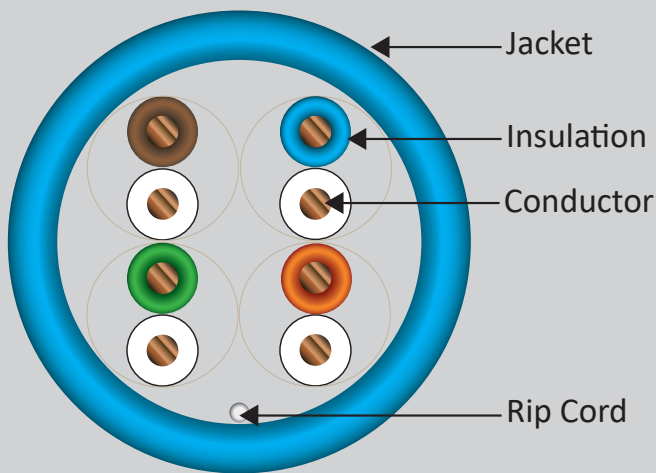


## DESCRIPTION

**CAT5e UTP CMP (Plenum-Rated)**  
**24 AWG Solid Bare Copper**  
**ETL-Listed**

## FEATURES

- 24 AWG Bare Copper Conductors
- Unshielded Twisted-Pair (UTP) Construction
- Plenum-Rated (CMP)
- Easy-to-See Vivid-Color Conductor Insulation & Jacket
- Exceeds ANSI/TIA-568.2-D and ISO/IEC 11801 Transmission Performance Specifications
- ETL-Listed, RoHS-Compliant
- Designed in the USA, Imported Product
- Packaging: Box, 1000 ft



## 055 Series

### Technical Data

Rated Temperature	-20~75 ° C
Storage Temperature Range	5~50 ° C
Installation Temperature Range	-20~75 ° C
Operating Temperature Range	
Voltage Rating	30 V
Product Standard Certification	CMP
Flammability Test	

### Conductor

Size	Solid Bare Copper
Diameter	24 AWG
	0.0196 in. (0.5 mm)

### Insulation

Average Thickness	FEP
Min. Point Thickness	0.007 in. (0.180 mm)
Insulation Diameter	0.006 in. (0.160 mm)
Twisted Pair Bundle OD	0.034 in. (0.86 mm ± 0.01)
Assembly Diameter	0.067 in. (1.72 mm ± 0.01)
	0.146 in. (3.70 mm ± 0.01)

### Jacket

Average Thickness	CMP-Rated PVC
Min. Point Thickness	0.016 in. (0.40 mm)
Outer Diameter	0.014 in. (0.36 mm)
Rip Cord	0.18 in. (4.6 mm ± 0.2)
	Nylon

### Color of Pairs

Pair 1	Blue, White-Blue
Pair 2	Orange, White-Orange
Pair 3	Green, White-Green
Pair 4	Brown, White-Brown

### Mechanical Characteristics

Test Object	Jacket
Test Material	PVC
Before: Tensile Strength (Mpa)	≥13.8
Aging Elongation (%)	≥100
Aging Condition (° C x hrs)	100x168
After: Tensile Strength (Mpa)	≥85% of unaged
Aging Elongation (%)	≥50% of unaged
Cold Bend (-20 ± 2 ° C x 4 hrs)	No Crack

### Marking on the Jacket:

VERTICAL CABLE 4001453 C(ETL)US CMP FT6 75C CAT5E 24AWG 4PR UTP  
ETL VERIFIED TO ANSI/TIA-568.2-D 350MHz RoHS V1379Pxxxxx xxxx FT

### Jacket Color Available in:

Black, Blue, White, Orange (check availability)

**VERTICAL CABLE**

951.696.7772 California

800.749.2447 Florida

845.391.8318 New York



**verticalcable.com**

Rev. 08/2022

Specs subject to change without notice.

It is the sole responsibility of the user to have the most current specs.

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## PERFORMANCE

### Electrical Characteristics:

1.0 - 350.0 MHz Impedance	100 ± 15% ohms
Pair-to-Ground Capacitance Unbalance	≤330 pF/100m
Delay Skew	≤45 ns/100 m
Resistance Unbalance	≤5%
Max. Conductor DC Resistance 20 ° C	93.8 ohms/km

### Permanent link transmission performance (at 20 ° C)

Frequency (MHz)	Return loss (Min dB)	Attenuation Max (dB/100m)	NEXT (Min dB)	ACR (Min dB)
1	20.0	2.0	68.3	66.3
4	23.0	4.1	59.3	55.2
8	24.5	5.8	54.8	49.0
10	25.0	6.5	53.3	46.8
16	25.0	8.2	50.3	42.1
20	25.0	9.3	48.8	39.5
25	24.3	10.4	47.3	36.9
31.25	23.6	11.7	45.9	34.2
62.5	21.5	17.0	41.4	24.4
100	20.1	22.0	38.3	16.3
155	18.8	28.1	35.5	7.4
200	18.0	32.4	33.8	1.4
240	17.4	36.0	32.6	---
300	16.8	41.0	31.2	---
350	16.3	44.9	30.1	---

Frequency (MHz)	PSNEXT Min (dB)	ELFEXT Min (dB/100m)	PSELFEXT Min (dB/100m)
1	66.3	63.8	60.8
4	57.3	51.7	48.7
8	52.8	45.7	42.7
10	51.3	43.8	40.8
16	48.3	39.7	36.7
20	46.8	37.8	34.8
25	45.3	35.8	32.8
31.25	43.9	33.9	30.9
62.5	39.4	27.8	24.8
100	36.3	24.0	21.0
155	33.5	20.0	17.0
200	31.8	17.7	14.7
240	30.6	16.2	13.2
300	29.2	14.2	11.2
350	28.1	12.9	9.9

\* Values above 100MHz are information only

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