

CAT5e UTP CABLE CMP (PLENUM-RATED)



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

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

Insulation

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

Jacket

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

C(ETL)US 4001453 CAT5E UTP 24AWG 4PR CMP FT6 75C 350MHz VERIFIED TO ANSI/TIA-568.2-D RoHS CEC For Service Call 866-423-2247 xxxx FT

Jacket Color Available in:

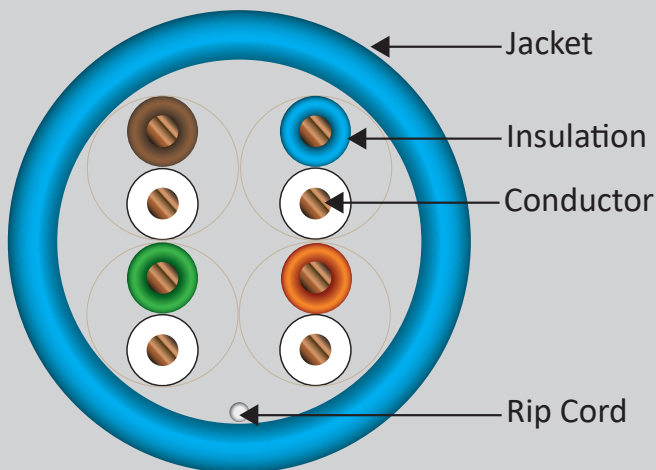
Black, Blue, Green, Gray, Purple, Red, White, Yellow, Orange, Pink (check availability)

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



VERTICAL CABLE

951.696.7772 California
800.749.2447 Florida
845.391.8318 New York



verticalcable.com

Rev. 11/2023

Specs subject to change without notice.

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

CAT5e UTP CABLE CMP (PLENUM-RATED)

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

VERTICAL CABLE

951.696.7772 California
800.749.2447 Florida
845.391.8318 New York



www.verticalcable.com

Rev. 11/2023

Specs subject to change without notice.

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