

# CAT5E CABLE, CM-Rated 50-PAIR POWER SUM



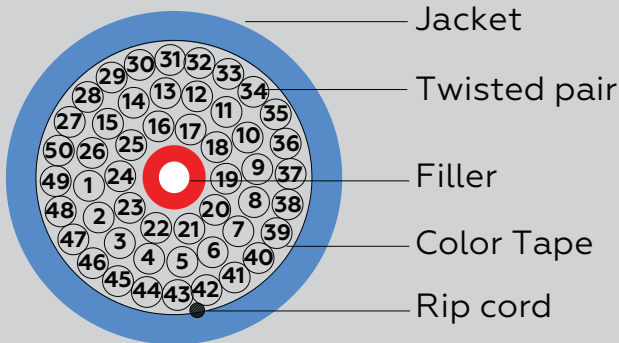
**SKU: 054-455BL** (Blue, 1000 FT)  
**054-456WH** (White, 1000 FT)  
**054-455BL-500** (500 FT)

## DESCRIPTION

**CAT5E, UTP, 50-Pair, Solid Bare Copper, PVC Jacket, CM-Rated**

## FEATURES

- High-Performance Data Cable
- 350 MHz Bandwidth for Data Applications, Fast Ethernet and 155Mbps TP-PMD/CDDI
- CAT5E Unshielded Twisted Pair
- Easily Identified Color-Striped Pairs
- Solid Bare Copper Conductors
- CM-Rated
- Exceeds TIA/EIA-568B.2, ISO/IEC 11801
- ETL-Listed, RoHS Compliant
- Available in 500 FT Spool and 1000 FT Spool



### Technical Data

Rated Temperature	70 °C
Rated Voltage	30 V
<b>Conductor</b>	Soft Annealed Bare Copper
	24 AWG
	Diameter
	0.02 in. (0.50±0.02mm)
<b>Insulation</b>	PE
	Average Thickness
	0.008 in. (0.205 mm)
	Min. Point Thickness
	(0.195 mm)
	Insulation Diameter
	0.0076 in. (0.90 ±0.05mm)
	Twisted Pair Diameter
	0.07 in. (1.80 ±0.05)
<b>Assembly Diameter</b>	0.54 in. (13.80 mm)
<b>Contents</b>	50 Pairs
<b>Tape</b>	PET
<b>Jacket</b>	PVC
	Average Thickness
	0.04 in. (1.00 mm)
	Min. Point Thickness
	0.035 in. (0.90 mm)
	Outer Diameter
	0.62 in. (15.80 ±0.3mm)
	Rip Cord
	Nylon
	Color
	White or Blue
<b>Mechanical Characteristics</b>	
<b>Test Object</b>	Jacket
<b>Test Material</b>	PVC
<b>Before Tensile Strength (Mpa)</b>	≥13.8
<b>Aging Elongation (%)</b>	≥100
<b>Aging Condition (°Cxhrs)</b>	100x168
<b>After Tensile Strength (Mpa)</b>	≥85% of unaged
<b>Aging Elongation (%)</b>	≥50% of unaged
<b>Cold Bend (-20±2° Cx4hrs)</b>	No Crack

### Jacket Marking

VERTICAL 4001453 cETLus VERIFIED CM UTP 50PR 24 AWG CAT5E 350MHz TIA/EIA - 568-C.2 RoHS V1379PXXXX XXXXFT

SEQUENTIAL FOOT MARKERS ON JACKET

**VERTICAL CABLE**

951.696.7772 California  
 800.749.2447 Florida  
 845.391.8318 New York



[www.verticalcable.com](http://www.verticalcable.com)

Rev. 02/2017

Specs subject to change without notice.

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

# CAT5 ENHANCED CABLE

## 50 PAIR UTP POWER SUM

### PERFORMANCE

#### Electrical Characteristics:

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

Frequency (Mhz)	Return Loss (Min dB)	Attenuation Max	Next (ns/100m)
0.772	19.4	1.8	67.0
1	20.0	2.0	65.3
4	23.0	4.1	56.3
8	24.5	5.8	51.8
10	25.0	6.5	50.3
16	25.0	8.2	47.3
20	25.0	9.3	45.8
25	24.3	10.4	44.3
31.25	23.6	11.7	42.9
62.5	21.5	17.0	38.4
100	20.1	22.0	35.3

Frequency (Mhz)	PSNext (Min dB)	ELFEXT Min(db/100m)	DELAY Max(ns/100m)
0.772	64.0	66.0	575.0
1	62.3	63.8	570.0
4	53.3	51.7	552.0
8	48.8	45.7	546.7
10	47.3	43.8	545.4
16	44.3	39.7	543.0
20	42.8	37.7	542.0
25	41.3	35.8	541.2
31.25	39.9	33.9	540.4
62.5	35.4	27.8	538.6
100	32.3	23.8	537.6

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## PAIR COLORS

No.	Color of Insulation	
	A	B
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Gray
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Gray
11	Black	Blue
12	Black	Orange
13	Black	Green
14	Black	Brown
15	Black	Gray
16	Yellow	Blue
17	Yellow	Orange
18	Yellow	Green
19	Yellow	Brown
20	Yellow	Gray
21	Purple	Blue
22	Purple	Orange
23	Purple	Green
24	Purple	Brown
25	Purple	Gray

No.	Color of Insulation	
	A	B
26	Blue-White	Brown
27	Orange-White	Brown
28	Green-White	Brown
29	Brown-White	Brown
30	Gray-White	Brown
31	Blue-Red	Gray
32	Orange-Red	Gray
33	Green-Red	Gray
34	Brown-Red	Gray
35	Gray-Red	Gray
36	Blue-Black	Orange
37	Orange-Black	Orange
38	Green-Black	Orange
39	Brown-Black	Orange
40	Gray-Black	Orange
41	Blue-Yellow	Blue
42	Orange-Yellow	Blue
43	Green-Yellow	Blue
44	Brown-Yellow	Blue
45	Gray-Yellow	Blue
46	Blue-Purple	Green
47	Orange-Purple	Green
48	Green-Purple	Green
49	Brown-Purple	Green
50	Gray-Purple	Green

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951 696-7772 California Office

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