

# CAT5 ENHANCED CABLE

## 50 PAIR UTP POWER SUM

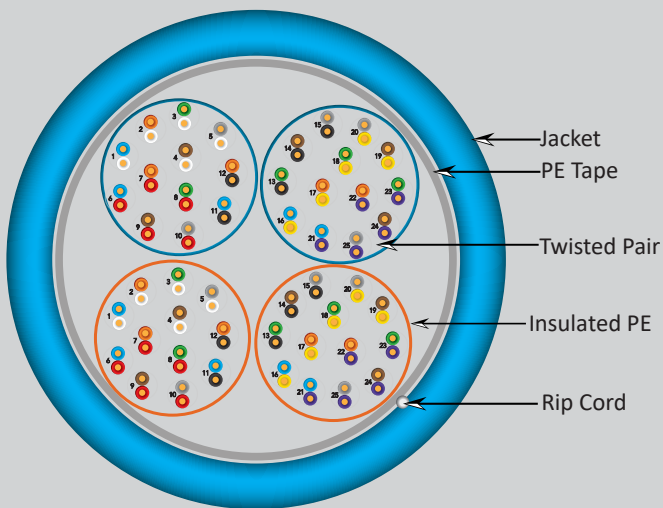


### DESCRIPTION

Category-5E, UTP, 50pair, Solid Bare Copper, PVC Jacket, CMR

### FEATURES

- Category-5E Unshielded Twisted Pair
- High-Performance Data Cable
- 350MHz Bandwidth for Data Applications, Fast Ethernet and 155Mbps TP-PMD/CDDI
- Easily Identified Color-Striped Pairs
- Solid Bare Copper Conductors
- CMR Rated (Riser Rated)
- Exceeds TIA/EIA-568B.2, ISO/IEC 11801
- ETL Listed, RoHS Compliant



**SKU: 054-455BL, 054-456WH**

#### Technical Data

<b>Conductor</b>	Diameter (±0.02mm)	<b>Bare Copper</b>	0.50
<b>Insulation</b>	Insulation Diameter (±0.05mm)	<b>PE</b>	0.90
	Color		(see table page 2)
<b>Twisted Pair</b>	Average lay length		≤35mm
	Diameter (±0.05mm)		1.80
<b>Jacket</b>	Outer Diameter (±1.0mm)	<b>PVC</b>	16.50
	Rip Cord		Yes
	Color		White or Blue
<b>Mechanical Characteristics</b>	Test Object	Jacket	PVC
	Test Material		PVC
	Before Tensile Strength (Mpa)	≥13.8	
	Aging Elongation (%)	≥100	
	Aging Condition (°Cxhrs)	100x168	
	After Tensile Strength (Mpa)	≥85% of unaged	
	Aging Elongation (%)	≥50% of unaged	
	Cold Bend (-20±2° Cx4hrs)	No Crack	

#### Jacket Marking

VERTICAL ETL VERIFIED CAT5E TO TIA 5668B.2.1 ETL 4003289 CMR  
50PR AWG UTP V1652P9848 ROHS XXXFT

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. 05/2016

Specs subject to change without notice.

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

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## 50 PAIR UTP POWER SUM

### PERFORMANCE

Electrical Characteristics: 20°C

Conductor Resistance  $\leq 97.8\Omega/1000m$   
 Insulation Resistance  $\leq 50M\Omega Km(DC500V \text{ Charged } 1Min)$   
 Core-Core Resistance Unbalance  $\leq 2.5\%$

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

### 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

50 Pair:

Number of Units: 2x (12 + 13)

Lapping Color: Blue-Blue-Orange-Orange

Color: (2 Sets of 25) See Chart

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