

# CAT5 ENHANCED CABLE

## 50 PAIR POWER SUM



### DESCRIPTION

Category-5E, 24AWG, UTP, 50 Pair, Solid Bare Copper, PVC Jacket.

### FEATURES

- High-Performance Data Cable
- 350MHz Bandwidth for Data Applications, Fast Ethernet and 155Mbps TP-PMD/CDDI
- Category-5E Unshielded Twisted Pair
- Easily Identified Color-Striped Pairs
- 24AWG Solid Copper Conductors
- Exceeds TIA/EIA-568B.2, ISO/IEC 11801
- ETL Listed



**SKU: 054-456WH**

#### Technical Data

Rated Temperature	70 °C
Rated Voltage	60V
<b>Conductor</b>	<b>Solid Bare Copper</b>
Size	24 AWG
<b>Insulation</b>	<b>PE</b>
Average Thickness (mm)	0.203
Min. Point Thickness (mm)	0.195
Insulation Diameter (±0.01mm)	0.91
Twisted Pair Diameter (±0.01)	1.82
<b>Filler</b>	<b>PVC</b>
<b>Assembly Diameter</b>	<b>13.80</b>
<b>Jacket</b>	<b>PVC</b>
Average Thickness (mm)	1.00
Min. Point Thickness (mm)	0.90
Outer Diameter (±0.30mm)	15.80
Rip Cord	Yes
Color	White
<b>Mechanical Characteristics</b>	
Test Object	Jacket
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 CABLE UTP 50PR 24 AWG ETL CM VERIFIED CAT5E 350MHz TIA/EIA - 568B.2 STANDARD RoHS COMPLIANT XXXFT

SEQUENTIAL FOOT MARKERS ON JACKET

**VERTICAL CABLE**

954 454-3554 Florida Office  
951 696-7772 California Office



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Rev. 02/2017  
Subject to change without notice.

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### PERFORMANCE

#### Electrical Characteristics:

1.0-100MHz Impedance (Ohms)	100±15
1.0-100MHz Delay Skew (ns/100m)	<=45
Pair-to-Ground Capacitance Unbalance (pF/100m)	<=330
Max. Conductor DC Resistance 20°C (ohms/km)	95
Resistance Unbalance (%)	<=5

Frequency (Mhz)	Return Loss (Min dB)	Attenuation Max	Next (ns/100m)
0.772	16.7	1.8	64.0
1	17.0	2.0	62.3
4	18.8	4.1	53.3
8	19.7	5.8	48.8
10	20.0	6.5	47.3
16	20.0	8.2	44.3
20	20.0	9.3	42.8
25	19.3	10.4	41.3
31.25	18.6	11.7	39.9
62.5	16.5	17.0	35.4
100	15.1	22.0	32.3

Frequency (Mhz)	PSNext (Min dB)	ELFEXT Min(db/100m)	DELAY Max(ns/100m)
0.772	64.0	63.0	574.0
1	62.3	60.8	570.0
4	53.3	48.7	552.0
8	48.8	42.7	546.0
10	47.3	40.8	545.0
16	44.3	36.7	543.0
20	42.8	34.7	542.0
25	41.3	32.8	541.0
31.25	39.9	30.9	540.0
62.5	35.4	24.8	538.0
100	32.3	20.8	537.0

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