

# CAT5e (ENHANCED) 350MHz F/UTP (SHIELDED) CMR RATED



## SKU: 057 SOLID SERIES

### DESCRIPTION

CAT5e, 24 AWG, F/UTP, 8C Solid Bare Copper, CMR Rated, PVC Jacket 1000ft

### FEATURES

- Overall Foil-Shielded Twisted-Pair (F/UTP) Construction
- Riser Fire Safety Rating (CMR)
- 24 AWG Bare Copper Conductors
- Easy-to-See Vivid-Color Conductor Insulation & Jacket
- Moisture-Resistant Box equipped with easy-to-pull tube
- Supports High-Speed Data Applications, Fast Ethernet and 155-Mbit/s TP-PMD/CDDI
- Supports High-Speed Data Applications up to 1 Gbit/s
- Meets or exceeds ANSI/TIA-568.2-D, ISO/IEC 11801 Transmission Performance Specifications
- ETL Listed, RoHS Compliant
- Packaging: 1000 ft Pull Box
- Weight: 28-30 lbs

#### Technical Data

Rated Temperature	75° C
Voltage Rating	60 V
Product Standard Certification	CMR
Application	Horizontal Wiring in LAN
Reference Standard	ANSI/TIA-568.2-D & ISO/IEC 11801
NVP	69%

#### Conductor

Size Solid Bare Copper

24 AWG

#### Insulation

PE

Average Thickness 0.0089 in (0.228 mm)

Min. Point Thickness 0.008 in (0.205 mm)

Insulation Diameter 0.038 in (0.97 mm ±0.005)

Twisted Pair Diameter 0.076 in (1.94 mm ±0.01)

Bond

Shield

Drain Wire Dia.

(Solid Tinned Copper)

#### Assembly Diameter

#### Jacket

Average Thickness 0.024 in (0.60 mm)

Min. Point Thickness 0.021 in (0.55 mm)

Outer Diameter 0.24 in (6.15 mm ±0.10)

Rip Cord

#### Color of Pairs

Pair 1

Pair 2

Pair 3

Pair 4

Blue,White-Blue

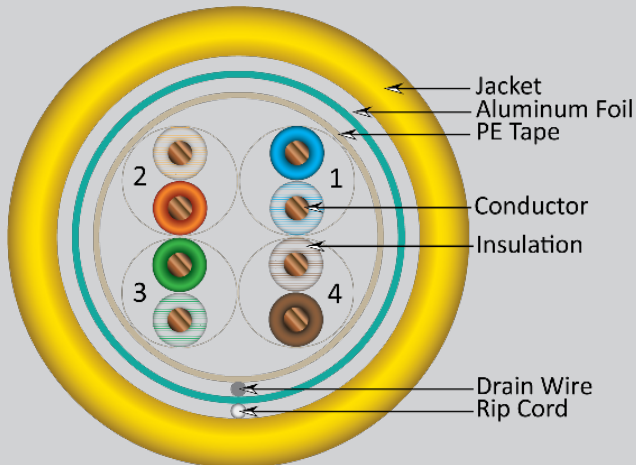
Orange,White-Orange

Green,White-Green

Brown,White-Brown

#### Marking on Jacket

VERTICAL 4001453 cETLus VERIFIED CMR FT4 F/UTP 4PR 24AWG  
CAT5E 350MHz ANSI/TIA-568.2-D RoHS V139P10864 1000FT



Dimensions of the box 16.5H x 16.5L x 8.5W (inches)  
45pcs per pallet  
(Packaging may vary)

Jacket color available in  
Blue, Black, White, Green, Gray, Red, Yellow  
Check availability

**VERTICAL CABLE**

951.696.7772 California

800.749.2447 Florida

845.391.8318 New York



Rev. 05/2020

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:

1.0-100MHz Impedance ( $\Omega$ )	100±15
100-200MHz Impedance ( $\Omega$ )	100±25
200-350MHz Impedance ( $\Omega$ )	100±35
1.0-350.0MHz 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
Insulation Resistance (M $\Omega$ Km, DC500V Charge 1 Min)	≥5000
Voltage Endurance (DC V/min)	1000 without breakdown

Frequency (Mhz)	Return Loss (Min dB)	Attenuation Max	Next (ns/100m)	ACR Typ(dB)
0.772	19.4	1.8	67.0	67.7
1	20.0	2.0	65.3	67.3
4	23.0	4.1	56.3	56.2
8	24.5	5.8	51.8	50.0
10	25.0	6.5	50.3	47.8
16	25.0	8.2	47.3	44.0
20	25.0	9.3	45.8	41.5
25	24.3	10.4	44.3	38.9
31.25	23.6	11.7	42.9	36.2
62.5	21.5	17.0	38.4	27.4
100	20.1	22.0	35.3	19.3
200	18.0	32.4	30.8	3.5
300	16.8	41.0	28.2	-----
350	16.3	44.9	27.2	-----

Frequency (Mhz)	PSNext (Min dB)	ELFEXT Min(db/100m)	PSELFEXT Min(db/100m)
0.772	64.0	66.0	63.0
1	62.3	63.8	60.8
4	53.3	51.7	48.7
8	48.8	45.7	42.7
10	47.3	43.8	40.8
16	44.3	39.7	36.7
20	42.8	37.7	34.7
25	41.3	35.8	32.8
31.25	39.9	33.9	30.9
62.5	35.4	27.8	24.8
100	32.3	23.8	20.8
200	27.8	17.7	14.7
300	25.2	14.2	11.2
350	24.2	12.9	9.9

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