

# CAT5E CABLE - CMP - F/UTP SHIELDED, PLENUM RATED

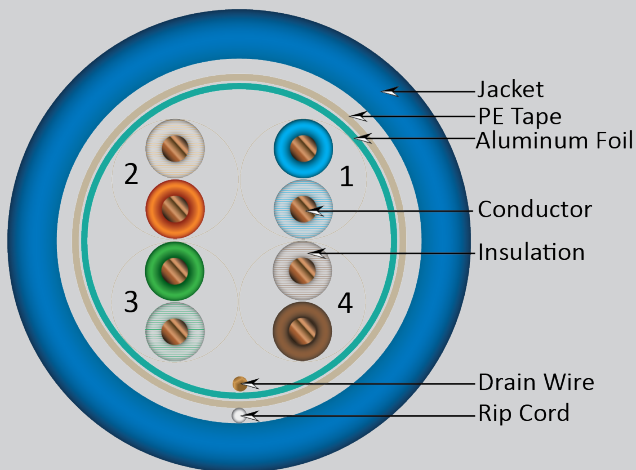


## DESCRIPTION

**CAT5E, 24 AWG, F/UTP, 4P 8C Solid Bare Copper, Plenum Rated (CMP), PVC Jacket 1000 ft box**

## FEATURES

- Overall Foil-Shielded Twisted-Pair (F/UTP) Construction
- Plenum Fire Safety Rating (CMP)
- 24 AWG 4 Pair Bare Copper Conductors
- Easy-to-See Vivid-Color Conductor Insulation & Jacket
- Meets or exceeds ANSI/TIA-568.2-D, ISO/IEC 11801 Transmission Performance Specifications
- ETL Listed, RoHS Compliant
- Packaging: 1000 ft Pull Box
- Weight: 29.7 lbs



Dimensions of the box 15H x 15L x 9W (inches)  
(Packaging may vary)

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

057-900/S/P/BK	CAT5E, 24 AWG, F/UTP, 4P 8C Solid Bare Copper, CMP, Black
057-905/S/P/BL	CAT5E, 24 AWG, F/UTP, 4P 8C Solid Bare Copper, CMP, Blue
057-910/S/P/GR	CAT5E, 24 AWG, F/UTP, 4P 8C Solid Bare Copper, CMP, Green
057-915/S/P/GY	CAT5E, 24 AWG, F/UTP, 4P 8C Solid Bare Copper, CMP, Gray
057-940/S/P/WH	CAT5E, 24 AWG, F/UTP, 4P 8C Solid Bare Copper, CMP, White

### Technical Data

Rated Temperature	75° C
Voltage Rating	30 V
Product Standard Certification	CMP
Application	Horizontal Wiring in LAN
Reference Standard	ANSI/TIA-568.2-D & ISO/IEC 11801

### Conductor

Size Solid Bare Copper

24 AWG

### Insulation

Average Thickness	0.0085 in (0.218 mm)
Min. Point Thickness	0.008 in (0.2 mm)
Insulation Diameter	0.037 in (0.95 mm ±0.01)
Twisted Pair Diameter	0.075 in (1.90 mm ±0.01)
Bond	PE-Tape
Shield	AL Foil
Drain Wire Dia. (Solid Tinned Copper)	0.016 in (0.40 mm)

### Assembly Diameter Jacket

Average Thickness	0.2 in (5 mm)
Min. Point Thickness	PVC CMP-Rated
Outer Diameter	0.016 in (0.40 mm)
Rip Cord	0.014 in (0.36 mm)
	0.23 in (5.8 mm ±0.3)
	Aramid Yarn

### Color of Pairs

Pair 1	Blue, White-Blue
Pair 2	Orange, White-Orange
Pair 3	Green, White-Green
Pair 4	Brown, White-Brown

### Mechanical Data

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

### Marking on Jacket

VERTICAL CABLE 4001453 c(ETL)us CMP FT6 75C CAT5E 350MHz  
24AWG 4PR F/UTP ETL VERIFIED TO ANSI/TIA-568.2-D RoHS  
V1379Pxxxxx xxxxFT

**VERTICAL CABLE**

951.696.7772 California

800.749.2447 Florida

845.391.8318 New York



Rev. 07/2023

Specs subject to change without notice.

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

# CAT5E (ENHANCED) 350MHz F/UTP (SHIELDED) PLENUM RATED

## PERFORMANCE

### Electrical Characteristics:

1.0-350MHz Impedance ( $\Omega$ )	100±15
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)	86.5

Frequency (MHz)	Return Loss (Min dB)	Attenuation Max	Next (ns/100m) (Min dB)
1	20.0	2.0	68.3
4	23.0	4.1	59.3
8	24.5	5.8	54.8
10	25.0	6.5	53.3
16	25.0	8.2	50.3
20	25.0	9.3	48.8
25	24.3	10.4	47.3
31.25	23.6	11.7	45.9
62.5	21.5	17.0	41.4
100	20.1	22.0	38.3
155	18.8	28.1	35.5
200	18.0	32.4	33.8
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)	ACR-F Min(dB/100m)	PSACR-F 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 100 MHz are information only.

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