



VERTICAL CABLE

CAT5E CMP CABLE

24 AWG, UTP (UNSHIELDED)

055 SERIES

DESCRIPTION

CAT5E, 24 AWG, UTP, CMP (Plenum-Rated) Solid Bare Copper, 350 MHz, 1000 ft.

FEATURES

- Unshielded Twisted-Pair (UTP) Construction
- Plenum Fire Safety Rating (CMP)
- 24 AWG Bare Copper Conductors
- Easy-to-See Vivid-Color Conductor Insulation & Jacket
- Meets or exceeds ANSI/TIA-568.2-D and ISO/IEC 11801
- Supports PoE Type 3 (802.3bt)
- Designed in the USA, Imported product
- ETL-Listed, RoHS Compliant
- Packaging: 1,000 ft pull box
- Weight: 23 lbs

PART NUMBERS			
055-452/P/BK	● (Black)	055-457/P/RD	● (Red)
055-453/P/BL	● (Blue)	055-458/P/WH	○ (White)
055-454/P/GR	● (Green)	055-459/P/YL	● (Yellow)
055-455/P/GY	● (Grey)	055-460/P/OR	● (Orange)
055-456/P/PR	● (Purple)	055-461/P/PK	● (Pink)

TECHNICAL DATA

Rated Temperature: -20 to 75 °C
 Product Standard Certification: CMP
 Power over Ethernet (PoE) Standard: Type 3

CONDUCTORS

Size: Solid Bare Copper
 24 AWG
 Diameter: 0.0196 in. (0.5 mm)

INSULATION

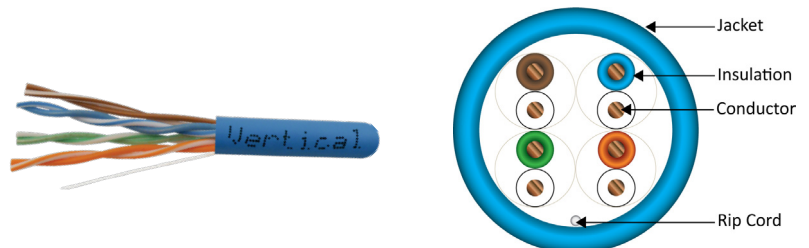
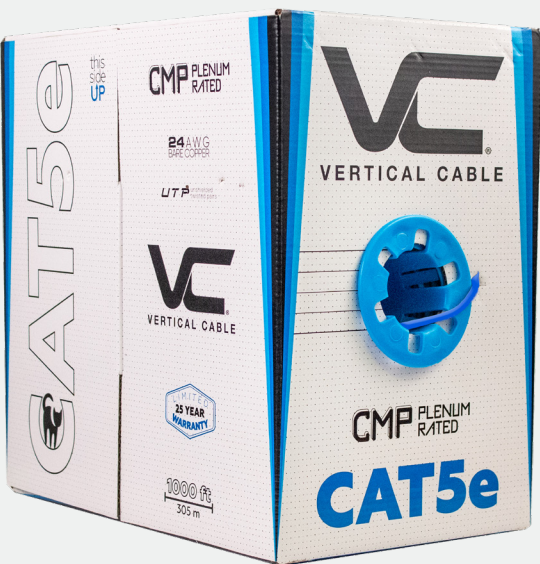
Average Thickness: FEP
 0.007 in. (0.180 mm)
 Min. Point Thickness: 0.006 in. (0.160 mm)
 Insulation Diameter: 0.034 in. (0.86 ± 0.01 mm)
 Voltage Rating: 300 V
 Twisted Pair Bundle OD: 0.067 in. (1.72 ± 0.01 mm)
 Assembly Diameter: 0.146 in. (3.70 ± 0.01 mm)

JACKET

Average Thickness: PVC
 0.016 in. (0.40 mm)
 Min. Point Thickness: 0.014 in. (0.36 mm)
 Outer Diameter: 0.18 in. (4.6 ± 0.2 mm)
 Ripcord: Nylon
 Color Coding: Pair 1: Blue/White-Blue
 Pair 2: Orange/White-Orange
 Pair 3: Green/White-Green
 Pair 4: Brown/White-Brown

Marking:

(ETL)us 4001453 CAT5E UTP
 24AWG 4PR CMP FT6 75C 350MHZ
 VERIFIED TO ANSI/TIA-568.2-D RoHS
 CEC For Service Call 866-423-2247 xxxx FT



Florida (HQ)
800-749-2447

California
951-696-7772

New York
845-391-8318

Texas
713-322-7242

verticalcable.com

This specification sheet is subject to change without notice.



ELECTRICAL CHARACTERISTICS

1.0-350 MHz Impedance (Ω):	100±15% ohms
Delay Skew:	≤45 ns/100m
Pair-to-Ground Capacitance Unbalance:	≤330 pF/100m
Max. Conductor DC Resistance 20°C:	9.38 Ω /km
Resistance Unbalance:	≤5 %

MECHANICAL

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

Permanent Link Transmission Performance (@ 20 °C)

Frequency (MHz)	Return loss (Min dB)	Attenuation Max (dB/100m)	NEXT (Min dB)	ACR (Min dB)
1	20.0	2.0	68.3	66.3
4	23.0	4.1	59.3	55.2
8	24.5	5.8	54.8	49.0
10	25.0	6.5	53.3	46.8
16	25.0	8.2	50.3	42.1
20	25.0	9.3	48.8	39.5
25	24.3	10.4	47.3	36.9
31.25	23.6	11.7	45.9	34.2
62.5	21.5	17.0	41.4	24.4
100	20.1	22.0	38.3	16.3
155	18.8	28.1	35.5	7.4
200	18.0	32.4	33.8	1.4
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)	ELFEXT Min (dB/100m)	PSELFEXT 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 100MHz are information only