



VERTICAL CABLE

# CAT5E CABLE

RISER (CMR RATED) | UTP | 350 MHz

## 054-SERIES

### DESCRIPTION

CAT5E, 24 AWG, UTP, 8C Solid Bare Copper, CMR Rated, PVC Jacket, 1,000 ft.

### FEATURES

- High-Performance Data Cable
- 350MHz Bandwidth for Data Applications
- Category-5E Unshielded Twisted Pair
- 24 AWG Solid Copper Conductors
- Easily Identified Color-Striped Pairs
- Meets or exceeds ANSI/TIA-568.2-E, ISO/IEC 11801:2002
- Riser Rated PVC Jacket
- ETL Listed, RoHS Compliant
- 1,000ft Pull Box



PART NUMBERS			
054-444BK	● (Black)	054-449RD	● (Red)
054-445BL	● (Blue)	054-450WH	○ (White)
054-446GR	● (Green)	054-451YL	● (Yellow)
054-447GY	● (Gray)	054-2392OR	● (Orange)
054-448PR	● (Purple)	054-2393/PK	● (Pink)

### TRANSMISSION PERFORMANCE

Meets or exceeds ANSI/TIA-568.2-E and ISO/IEC 11801:2002 specifications

### CONSTRUCTION

Pairs: 4  
 Conductors: 8  
 Rip Cord: 1

### CONDUCTORS

Material: Solid Bare Copper  
 Size: 24 AWG

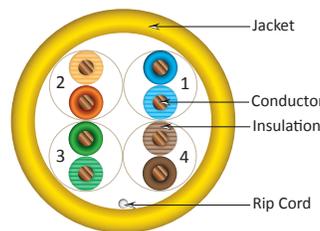
### INSULATION

Material: PE  
 Diameter: 0.035 in. (0.88 ± 0.005 mm)  
 Average Thickness: 0.008 in. (0.203 mm)  
 Min. Point Thickness: 0.007 in. (0.172 mm)  
 Twisted Pair Diameter: 0.07 in. (1.76 ± 0.01 mm)  
 Color Coding: Pair 1: Blue/White-Blue Pair 2: Orange/White-Orange  
 Pair 3: Green/White-Green Pair 4: Brown/White-Brown

### JACKET

Material: Polyvinyl Chloride (PVC)  
 Outer Diameter: 0.2 in. (5 ± 0.1 mm)  
 Average Thickness: 0.02 in. (0.6 mm)  
 Min. Point Thickness: 0.02 in. (0.54 mm)  
 Marking: VERTICAL 5031626 c(ETL)us VERIFIED CMR FT4 UTP FPR 24AWG CAT5E 350MHz ANSI/TIA-568.2-E & ISO/IEC 118012002 RoHS V2520P14420 XXXXFT

### ASSEMBLY DIAMETER 0.14 in. (3.60 mm)



Florida (HQ)  
800-749-2447

California  
951-696-7772

New York  
845-391-8318

Texas  
713-322-7242

verticalcable.com

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## ELECTRICAL & ENVIRONMENTAL CHARACTERISTICS

Rated Temperature:	75 °C
Voltage Rating:	60 V <sub>RMS</sub>
Product Standard Certification:	CMR
NVP	69%
1.0-100 MHz Impedance (Ohms)	100 ±15
100-200 MHz Impedance (Ohms)	100 ±15
200-350 MHz Impedance (Ohms)	100 ±15
1.0-350 MHz Delay Skew (ns/100m)	≤45
Pair-to-Ground Capacitance Unbalance (pF/100m):	≤330
Max Conductor DC Resistance 20°C (Ohms/km)	93.8 Ω/km
Resistance Unbalance (%):	≤5

## MECHANICAL CHARACTERISTICS

Test Object	PVC Jacket
<b>BEFORE AGING</b>	
Tensile Strength (MPa):	≥13.8
Elongation (%):	≥100
Aging Conditions (°C × hrs):	100x168
<b>AFTER AGING</b>	
Tensile Strength (MPa):	≥85% of unaged
Elongation (%):	≥50% of unaged
Cold Bend (-20±2 °Cx4hrs):	No Crack

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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