

CAT3 VOICE GRADE CABLE

CMR RATED / 25 PAIR

24 AWG 50 CONDUCTOR (UTP)

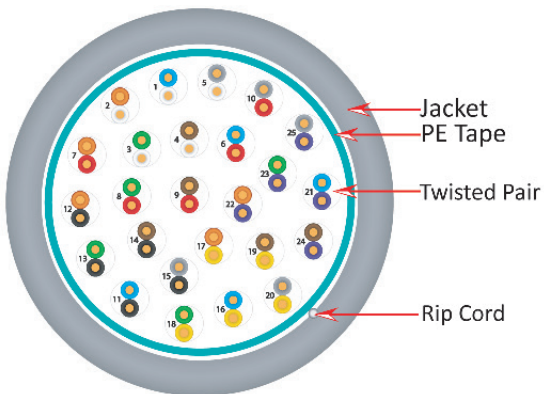


DESCRIPTION

**CAT3 Multi-Pair, CMR Rated / Unshielded (UTP),
25 Twisted Pairs, 24 AWG Solid Bare Copper
Conductors**

FEATURES

- Suitable for telephony communication
- Excellent attenuation and crosstalk characteristics
- 25 Pairs housed together with varying lays
- 24 AWG solid copper conductors
- Easily identifiable pair insulation colors
- Meets ANSI/TIA-568.2-D and ISO/IEC 11801 specifications
- CAN/CSA-C22.2 No. 214, RoHS compliant
- ETL listed



052-441GY

TRANSMISSION PERFORMANCE

Meets or exceeds ANSI/TIA-568.2-D and ISO/IEC 11801 specifications

CONSTRUCTION

Pairs:	25
Conductors:	50
PE Tape:	1
Screen:	Unscreened (UTP)
Polyester Tape:	Yes
Assembly Diameter:	0.35 in. (9 mm)

CONDUCTORS

Material:	Solid Bare Annealed Copper
Size:	24 AWG
Diameter:	0.019 in. (0.475 mm)

INSULATION

Material:	Polyethylene (PE)
Diameter:	0.035 in. (0.88 ± 0.01 mm)
Average Thickness:	0.008 in. (0.203 mm)
Minimum Point Thickness:	0.007 in. (0.182 mm)

TWISTED PAIR

Diameter:	0.07 in. (1.76 ± 0.02 mm)
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JACKET

Material:	Polyvinyl Chloride (PVC)
Outer Diameter:	0.425 in. (10.80 mm)
Average Thickness:	0.0334 in. (0.85 mm)
Minimum Point Thickness:	0.03 in. (0.75 mm)
Rip Cord:	Nylon
Marking:	VERTICAL 4001453 cETLus VERIFIED CMR UTP 25PR 24 AWG CAT3 ANSI/TIA-568.2-D RoHS V1379PXXXXXX XXXXFT

VERTICAL CABLE

951.696.7772 California
800.749.2447 Florida
845.391.8318 New York
713.322.7242 Texas



verticalcable.com

Rev. 10/2025

Subject to change without notice.

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24 AWG 50 CONDUCTOR (UTP)

CABLE CORE

Total Mylar Spiral: $\geq 125\%$

Color Coding (25 Twisted Pairs x 1):

Pair 1: White-Blue/Blue-White	Pair 6: Red/Blue	Pair 11: Black/Blue	Pair 16: Yellow/Blue	Pair 21: Purple/Blue
Pair 2: White/Orange	Pair 7: Red/Orange	Pair 12: Black/Orange	Pair 17: Yellow/Orange	Pair 22: Purple/Orange
Pair 3: White/Green	Pair 8: Red/Green	Pair 13: Black/Green	Pair 18: Yellow/Green	Pair 23: Purple/Green
Pair 4: White/Brown	Pair 9: Red/Brown	Pair 14: Black/Brown	Pair 19: Yellow/Brown	Pair 24: Purple/Brown
Pair 5: White/Gray	Pair 10: Red/Gray	Pair 15: Black/Gray	Pair 20: Yellow/Gray	Pair 25: Purple/Gray

ELECTRICAL

Voltage Rating: 30 V RMS
 Impedance (1-100 MHz): $100 \pm 15 \Omega$
 Delay Skew (1-100 MHz): ≤ 45 ns/100m
 Pair-to-Ground Capacitance Unbalance: ≤ 330 pF/100m
 Max Conductor DC Resistance @ 20°C: 105 Ω /km
 DC Resistance Unbalance: $\leq 5\%$

Frequency (MHz)	Return loss (Min dB)	Attenuation (dB/100m)	Delay (ns/100m)	
1	12	2.6	570	
4	12	5.6	552	
8	12	8.5	545	
10	12	9.7	545	
16	10	13.1	543	
Frequency (MHz)	NEXT (Min dB)	SKEW ns		
1	41.3			
4	32.3			
8	27.8	45		
10	26.3			
16	23.3			

MECHANICAL

Test Object: Jacket
 Test Material: PVC
 Tensile Strength (Before Aging) (Mpa): ≥ 13.8
 Elongation (Before Aging) (%): ≥ 100
 Aging Condition ($^{\circ}\text{C} \times \text{hrs}$): 100 $\times$ 168
 Tensile Strength (After Aging) (Mpa): $\geq 85\%$ of unaged
 Elongation (After Aging) (%): $\geq 50\%$ of unaged
 Cold Bend ($-20 \pm 2^{\circ}\text{C} \times 4\text{hrs}$): No Crack

ENVIRONMENTAL

Operating Temperature Rating: -40°F to $+167^{\circ}\text{F}$ (-40°C to $+75^{\circ}\text{C}$)

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