

CAT3 VOICE GRADE CABLE

CMR RATED / 100 PAIR

24 AWG 200 CONDUCTOR (UTP)

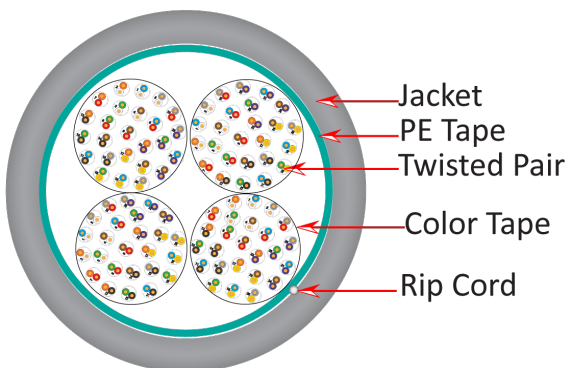


DESCRIPTION

CAT3 Multi-Pair, CMR Rated / Unshielded (UTP), 100 Twisted Pairs, 24 AWG Solid Bare Copper Conductors.

FEATURES

- Suitable for telephony communication
- Excellent attenuation and crosstalk characteristics
- 100 Pairs housed together with varying lays
- 24 AWG solid copper conductors
- Easily identifiable pair insulation colors
- Meets or exceeds ANSI/TIA-568.2-D and ISO/IEC 11801 specifications
- RoHS compliant
- ETL listed



052-443GY

TRANSMISSION PERFORMANCE

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

CONSTRUCTION

Pairs:	100
Conductors:	200
PE Tape:	1
Nylon Tape:	Yes
Screen:	Unscreened (UTP)
PE Tape:	Yes
Assembly Diameter:	1.70 in. (43.18 mm)

CONDUCTORS

Material:	Solid Bare Annealed Copper
Size:	24 AWG
Diameter:	0.019 in. (0.475 ± 0.005 mm)

INSULATION

Material:	Polyvinyl Chloride (PVC)
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:	0.81 in. (20.5 ± 0.2 mm)
Average Thickness:	0.04 in. (1 mm)
Minimum Point Thickness:	0.035 in. (0.9 mm)
Rip Cord:	Nylon
Marking:	VERTICAL 4001453 cETLus VERIFIED CMR UTP 100PR 24 AWG CAT3 ANSI/TIA-568.2-D RoHS V1379PXXXXXX XXXXFT

WEIGHT

215 lb (97.5 kg)

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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CABLE CORE

Total Mylar Spiral: $\geq 125\%$

Color Coding (25 Twisted Pairs x 4)*:

Pair 1: White with Blue ring/ Blue with White ring	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/Orange
Pair 4: White/Brown	Pair 9: Red/Brown	Pair 14: Black/Brown	Pair 19: Yellow/Brown	Pair 24: Purple/Orange
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 Ω
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)	NEXT (Min dB)
1	12	2.6	570	41.3
4	12	5.6	552	32.3
8	12	8.5	545	27.8
10	12	9.7	545	26.3
16	10	13.1	543	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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