

CAT5E PLENUM 350MHz UL LISTED MADE IN USA

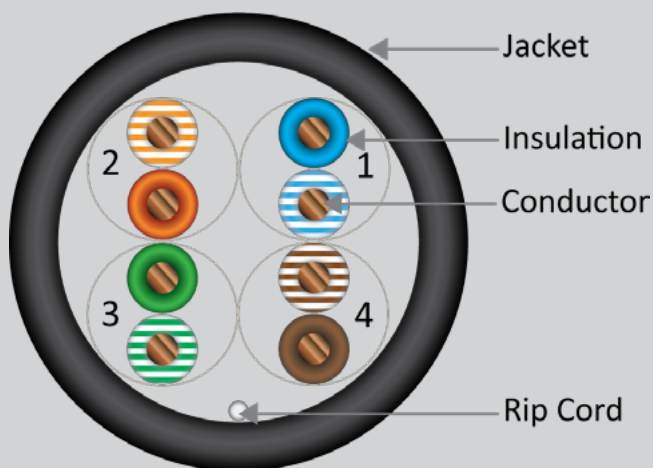


DESCRIPTION

Category-5E, CMP Rated, 24AWG,
UTP, 8C Solid Bare Copper, 550MHz, 1000ft.
MADE IN USA

FEATURES

- High-Performance Category-5E Data Cable
- 350Mhz Bandwidth for Data Applications
- Unshielded Twisted Pair (UTP) Cable
- 24AWG Solid Bare Copper Conductors
- Easily Identified Color-Striped Pairs
- CMP Rated (Plenum)
- UL Listed, ANSI/TIA 568-C.2
- 1000ft Pull Box
- MADE IN USA



SKU: 157 Series

Technical Data

NVP	72%
Conductor	24AWG Solid Bare Copper
Diameter	(.0198"/.503 mm nom.)
Number	8 (4 Pair)

Insulation

Thickness	FEP
Color of Pairs	0.0075" (0.190 mm)
Pair 1	Blue, White-Blue
Pair 2	Orange, White-Orange
Pair 3	Green, White-Green
Pair 4	Brown, White-Brown

Jacket

Overall Cable Diameter	FR-PVC
Rip Cord	0.185" Nom. (4.70 mm)
	Yes

Jacket Print:

VERTICAL CABLE E472493 c(UL)us CMP UTP FT6 75°C 24 AWG 4PR
VERIFIED (UL) CAT5e ANSI/TIA 568-C.2 ISO-IEC 11801 --- TESTED TO
350 MHz ROHS COMPLIANT MADE IN USA PO#/OP#/ LOT # ROHS
COMPLIANT 0000 FT

Electrical & Environmental Properties

Compliance:	UL 444
c(ETL)us, TIA/EIA568-C.2	-20°C To +75°C
Safety Listing Standard	Operating Temperature
Operating Voltage Rating (V RMS)	300
DC Resistance per Conductor @20°C (Ω/100m)	9.38
Mutual Capacitance (nF/100m Max)	5.6
Resistance Unbalance Max (%)	5
Capacitance Unbalance Max (pF/100m)	330
Nominal Impedance (±15%)(Ω)	100
Weight (lb/1000ft)	21
Max Recommended Pull Tension (lb)	25
Min Bend Radius (in)	0.75

Applications

ANSI X3T9.5 TP-PMD (FDDI), ATM PMD 155 Mbps IEEE 802.3 Fast
Ethernet :10 Base-T, 100 Base-T4, 100 Base-X IEEE 802.5 :4/16 Mbps Token
Ring, IEEE 802.12 :100 Base-VG

Jacket Colors Available: Blue, Green, Gray, Orange, Pink, Purple,
Red, White, Yellow

VERTICAL CABLE

951.696.7772 California

800.749.2447 Florida

845.391.8318 New York



www.verticalcable.com

Rev. 12/2017

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PERFORMANCE

Electrical Performance

ITEM(d B) Frequency (MHz)	ATT MAX. (dB/100m)	NEXT MIN. (d B)	ACR MIN. (dB)	PS. NEXT MIN. (dB)	PS. ACR MIN.	ELFEXT MIN (dB/100m)	PS. ELFEXT MIN. (dB/100m)	R.L. MIN. (d B)
1	2.0	68.3	66.3	66.3	64.3	63.8	60.8	20.0
4	4.1	59.3	55.2	57.3	53.2	51.7	48.7	23.0
8	5.8	54.8	49.0	52.8	47.0	45.7	42.7	24.5
10	6.5	53.3	46.8	51.3	44.8	43.8	40.8	25.0
16	8.2	50.3	42.1	48.3	40.1	39.7	36.7	25.0
20	9.3	48.8	39.5	46.8	37.5	37.8	34.8	25.0
25	10.4	47.3	36.9	45.3	34.9	35.8	32.8	24.3
31.25	11.7	45.9	34.2	43.9	32.2	33.9	30.9	23.6
62.5	17.0	41.4	24.4	39.4	22.4	27.8	24.8	21.5
100	22.0	38.3	16.3	36.3	14.3	23.8	20.8	20.1
155	28.1	35.5	7.4	33.5	5.4	20.0	17.0	18.8
200	32.4	33.8	1.4	31.8	0	17.7	14.7	18.0
240	36	32.6	N.A	30.6	N.A	16.2	13.2	17.4
300	41	31.2	N.A	29.2	N.A	14.2	11.2	16.8
350	44.9	30.1	N.A	28.1	N.A	12.9	9.9	16.3

Mechanical Properties:

Max. Recommended Pull Tension

Min. Bend Radius (Installed)

RoHS Compliant

Storage Temp Range

Installation Temp Range

Operating Temp Range

25 lbs.

0.75" Min.

Yes

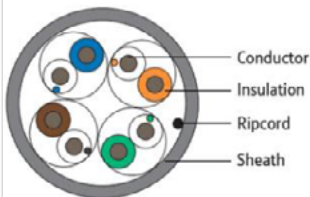
-20°C to +75°C

0°C to +50°C

-20°C to +75°C

The Jacket is sequentially foot marked.

Standard Lengths are 1000FT



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Cable ID: CAT5e CMP UTP

Date / Time: 05/16/2017 09:33:52 AM
Headroom 3.6 dB (NEXT 36-78)
Test Limit: TIA Cat 5e Perm. Link
Cable Type: Cat 5e U/UTP
NVP: 72.0%

Operator: QC TECH
Software Version: 2.7700
Limits Version: 1.9400

Test Summary: PASS

Model: DTX-1800
Main S/N: 1279007
Remote S/N: 1279008
Main Adapter: DTX-PLA002
Remote Adapter: DTX-PLA002

Length (ft), Limit 295	[Pair 12]	289
Prop. Delay (ns), Limit 498	[Pair 45]	418
Delay Skew (ns), Limit 44	[Pair 45]	10
Resistance (ohms)	[Pair 45]	16.3

Insertion Loss Margin (dB)	[Pair 45]	1.9
Frequency (MHz)	[Pair 45]	100.0
Limit (dB)	[Pair 45]	21.0

Worst Case Margin Worst Case Value

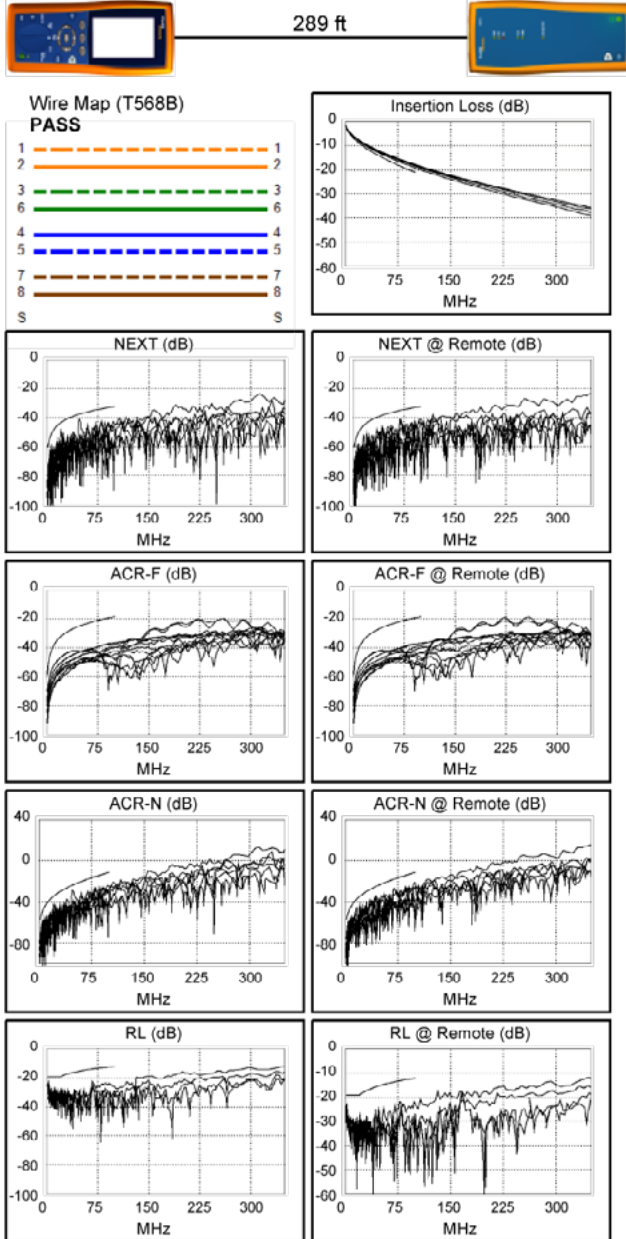
PASS	MAIN	SR	MAIN	SR
Worst Pair	36-78	36-78	36-78	36-45
NEXT (dB)	3.6	6.0	3.6	7.4
Freq. (MHz)	47.8	69.3	47.8	98.8
Limit (dB)	37.6	34.9	37.6	32.4
Worst Pair	36	36	36	36
PS NEXT (dB)	6.5	6.4	11.1	8.7
Freq. (MHz)	47.8	69.3	98.5	97.3
Limit (dB)	34.6	31.9	29.4	29.5

PASS	MAIN	SR	MAIN	SR
Worst Pair	45-36	36-45	12-78	12-78
ACR-F (dB)	13.3	13.3	18.0	18.1
Freq. (MHz)	2.5	2.5	99.3	96.3
Limit (dB)	50.7	50.7	18.7	18.9
Worst Pair	36	36	78	78
PS ACR-F (dB)	13.8	14.0	18.5	19.6
Freq. (MHz)	1.0	1.0	94.3	99.8
Limit (dB)	55.6	55.6	16.1	15.6

N/A	MAIN	SR	MAIN	SR
Worst Pair	36-78	36-78	36-45	36-45
ACR-N (dB)	5.5	7.4	11.7	9.2
Freq. (MHz)	47.5	20.4	98.5	98.8
Limit (dB)	23.6	34.6	11.6	11.6
Worst Pair	36	36	45	45
PS ACR-N (dB)	8.1	8.3	13.4	11.1
Freq. (MHz)	47.8	69.3	98.5	98.8
Limit (dB)	20.5	14.8	8.6	8.6

PASS	MAIN	SR	MAIN	SR
Worst Pair	78	12	45	45
RL (dB)	7.6	7.4	8.3	7.6
Freq. (MHz)	4.0	3.9	67.3	78.3
Limit (dB)	19.0	19.0	13.7	13.1

Compliant Network Standards:
10BASE-T 100BASE-TX 100BASE-T
ATM-155 100VG-AnyLan ATM-51
TR-16 Active TR-16 Passive TR-4



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