

CAT5 ENHANCED 350MHz UTP (STRANDED)



DESCRIPTION

Category-5E, 24AWG, UTP, 8C Stranded Bare Copper, PVC Jacket 1000ft.

FEATURES

- High-Performance Data Cable
- 350MHz Bandwidth for Data Applications, Fast Ethernet and 155Mbps TP-PMD/CDDI
- Category-5E Unshielded Twisted Pair
- Easily Identified Color-Striped Pairs
- 24AWG Stranded Copper Conductors
- Exceeds TIA/EIA-568C.2
- ETL Listed
- 1000ft Pull Box



Technical Data

Rated Temperature (°C)	75
Product Standard Certification	CM

Conductor

Size	Stranded Bare Copper
Diameter (±0.005mm)	24 AWG

Insulation

Average Thickness (mm)	7/0.2
Min. Point Thickness (mm)	PE
Insulation Diameter (±0.005mm)	0.255
Twisted Pair Diameter (±0.01)	0.190

Assembly Diameter

4.00

Jacket

Average Thickness (mm)	PVC
Min. Point Thickness (mm)	0.60
Outer Diameter (±0.10mm)	0.50
Rip Cord	5.20

Color of Pairs

Pair 1	Blue, White-Blue
Pair 2	Orange, White-Orange
Pair 3	Green, White-Green
Pair 4	Brown, White-Brown

Mechanical Characteristics

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

Marking on Jacket

NHTD UTP PATCH CABLE 4PR 24AWG CAT.5E 350MHz c(ETL)us
VERIFIED CM TIA/EIA-568C.2 RoHS XXXM
(SEQUENTIAL FOOT MARKERS ON JACKET)



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PERFORMANCE

Electrical Characteristics:

1.0-350.0MHz Impedance (Ohms)	100±15
1.0-350.0MHz Delay Skew (ns/100m)	≤45
Pair-to-Ground Capacitance Unbalance (pF/100m)	≤330
Max. Conductor DC Resistance 20°C (ohms/km)	93.8
Resistance Unbalance (%)	≤5

Frequency (Mhz)	Return Loss (Min dB)	Attenuation Max	Next (Min dB)
0.772	19.4	1.8	67.0
1	20.0	2.0	65.3
4	23.0	4.1	56.3
8	24.5	5.8	51.8
10	25.0	6.5	50.3
16	25.0	8.2	47.3
20	25.0	9.3	45.8
25	24.3	10.4	44.3
31.25	23.6	11.7	42.9
62.5	21.5	17.0	38.4
100	20.1	22.0	35.3
250	17.8	34.5	29.3
350	16.6	40.2	27.2

Frequency (Mhz)	PSNext Min (dB)	ELFEXT Min(db/100m)	PSELFEXT Min(db/100m)	Delay Max (ns/100m)
0.772	64.0	66.0	63.0	575.0
1	62.3	63.8	60.8	570.0
4	53.3	51.7	48.7	552.0
8	48.8	45.7	42.7	546.7
10	47.3	43.8	40.8	545.4
16	44.3	39.7	36.7	543.0
20	42.8	37.7	34.7	542.0
25	41.3	35.8	32.8	541.2
31.25	39.9	33.9	30.9	540.4
62.5	35.4	27.8	24.8	538.6
100	32.3	23.8	20.8	537.6
250	26.3	15.8	12.8	536.3
350	24.2	12.9	9.9	535.9