

Super 350™ 4 Pair Enhanced Category 5e UTP Cable

Super 350™ Enhanced Category 5e UTP cable is designed to meet or exceed the today's most advanced UTP cable applications. With enough headroom to greatly exceed ANSI/TIA/EIA 568-A-5 and ISO/IEC 11801 specifications, Super 350™ is ideal for installations that require high performance cable solution. Outstanding performance sets Super 350™ far apart from common Category 5e cables and making it ideal for high-end transmission links supporting the today's demanding network protocols.



Standards

- ANSI/TIA/EIA-568-A-5 Category 5e
- ISO/IEC 11801 Category 5e
- Non Plenum – UL 1581, UL 1666, CM, CMR, IEC 332-1, CSA, ETL
- Plenum – UL 910, CMP, CSA, ETL

Applications

Super 350™ Enhanced Category 5e UTP cables are specified to 350MHz and support high speed application including:

- ATM 155 Mbps
- Ethernet 10BASE-T, 100BASE-TX, 100BASE-VG, 100BASE-T4, 1000 Mbps 1000BASE-T Gigabit ETHERNET™ (IEEE 802.3)
- 16Mbps Token Ring™ (IEEE 802.5)

Construction

- Conductor: 24AWG Solid Annealed Bare Copper
- Insulation: Polyethylene (Non-Plenum) or FEP (Plenum)
- Jacket: Flame Retardant PVC (FR-PVC) or Polymer Alloy

Features & Benefits

- Attenuation, PS-NEXT, ACR and RL are specified and tested to 350MHz – Enhanced bandwidth cable ensures Zero Bit Error Rates and increases network efficiency and uptime
- Guaranteed 6dB PS-NEXT and exceptional PS-ACR performance over TIA/EIA 568-A-5 Category 5e requirements - Performance assurance for multiple high-bandwidth applications (e.g. Fast ETHERNET, ATM, Gigabit ETHERNET)
- Guaranteed 5dB better NEXT than TIA/EIA 568-A-5 Category 5e standards – Greater assurance of exceptional overall channel performance
- Positive identification striping on 100% of conductor length – Easily identifiable conductor mates
- ETL verified to TIA/EIA 568-A-5 and ISO/IEC 11801 – Universally accepted design and approvals for global commercial network installation

❖ Parametric Measurement

Impedance:	100 ± 15 Ω 0.772 – 100 MHz 100 ± 22 Ω 100 – 200MHz 100 ± 32 Ω 200 – 350MHz
Max. Conductor Resistance:	9.38 Ω / 100 Meters @ 20 °C 28.6 Ω / 1,000 FT @ 20 °C
Max. Resistance Unbalance:	5%
Max. Capacitance Unbalance:	330 pF / 100 Meters

Max. Delay Skew:	20 ns / 100 Meters
Nom. Velocity of Prop.:	71% for CM, CMR 73% for CMP
Mutual Capacitance:	5.6 nF / 100 Meters
Temperature Rating:	0 to +60 °C (Installation) -20 °C to +70 °C (Operating)

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❖ Physical Data

	CM	CMR	CMP
Conductor Nom. O.D.	.0208"	.0208"	.0208"
Nom. Cable Diameter	.197"	.197"	.192"
Nominal Weight	23 lbs	23 lbs	21 lbs
Min. Bend Radius	1.0"	1.0"	1.0"
Max. Tension	25 lbs	25 lbs	25 lbs

❖ Electrical Data

Frequency (MHz)	Attenuation (dB/100m)		RL (dB)		NEXT (dB)		PS-NEXT (dB)		ELFEXT (dB)		PS-ELFEXT (dB)		ACR (dB)		PS-ACR (dB)	
	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.
.772	1.8	1.5	23.0	33.0	72.0	81.1	70.0	78.7	66.0	73.3	63.0	72.7	70.2	79.2	68.2	77.0
1	2.0	1.8	23.0	38.6	70.3	79.4	68.3	76.9	63.8	71.3	60.8	70.6	68.2	77.6	66.3	75.0
4	4.1	3.6	23.0	39.8	61.2	69.9	59.3	67.4	51.7	59.4	48.7	58.7	57.2	66.3	55.2	63.5
8	5.8	5.1	24.5	38.2	56.8	61.9	54.8	59.4	45.7	53.2	42.7	51.1	51.0	59.8	49.0	56.9
10	6.5	5.8	25.0	38.0	55.3	62.4	53.5	59.9	43.8	50.5	40.8	49.7	48.8	56.6	47.0	53.7
16	8.2	7.4	25.0	37.4	52.3	57.8	50.3	55.2	39.7	47.0	36.7	45.1	43.0	53.0	42.1	47.4
20	9.3	8.2	25.0	36.8	50.8	56.4	48.8	53.8	37.7	45.0	34.7	43.6	41.5	50.5	39.5	45.0
25	10.4	9.3	24.3	35.2	49.3	56.3	47.3	53.6	35.8	43.3	32.8	42.0	38.9	47.0	36.9	43.7
31.25	11.7	10.5	23.6	33.3	47.9	53.8	45.9	51.1	33.9	41.3	30.9	40.5	36.5	43.3	34.2	40.0
62.5	17.0	14.9	21.5	32.2	43.4	49.8	41.4	47.4	27.8	35.8	24.8	34.5	26.4	35.0	24.4	31.2
100	22.0	19.2	20.1	31.3	40.3	47.5	38.3	45.0	23.8	31.3	20.8	30.3	18.3	26.2	16.3	24.2
155	28.1	24.2	18.8	29.8	37.4	45.1	35.4	42.6	19.9	27.5	16.9	26.9	10.0	20.9	7.3	15.9
200	32.4	27.3	18.0	28.5	35.7	43.3	33.7	40.8	17.7	24.7	14.7	24.5	5.0	16.0	2.0	10.0
250	38.9	30.9	17.5	27.3	34.8	41.4	32.5	39.0	17.1	22.2	14.0	22.5	0	10.6	-	4.0
300	41.0	34.1	16.8	25.6	33.1	40.2	31.1	37.7	16.7	20.5	13.5	20.7	-	6.1	-	-1.3
350	44.9	37.8	16.3	23.2	32.1	39.0	30.1	36.5	16.0	19.4	12.8	19.6	-	1.2	-	-6.4

❖ Color Code

Pair 1	White / Blue	Blue
Pair 2	White / Orange	Orange
Pair 3	White / Green	Green
Pair 4	White / Brown	Brown

❖ Packaging Option

1000 FT	Pull-Out Box
1000 FT	Reel
1000 FT	Reel in a Box

❖ UTP Enhanced Category 5e Part Number

Part Number	Rating**	Jacket	Jacket Color*	Length
L44306	CM	FR-PVC	BLUE	1000 FT (305m)
L44310	CM	FR-PVC	GRAY	1000 FT (305m)
L44303	CM	FR-PVC	WHITE	1000 FT (305m)
L44506	CMR	FR-PVC	BLUE	1000 FT (305m)
L44510	CMR	FR-PVC	GRAY	1000 FT (305m)
L44503	CMR	FR-PVC	WHITE	1000 FT (305m)
L44706	CMP	Polymer Alloy	BLUE	1000 FT (305m)
L44710	CMP	Polymer Alloy	GRAY	1000 FT (305m)
L44703	CMP	Polymer Alloy	WHITE	1000 FT (305m)

* Other jacket colors available.

** Also available in LSZH (Low Smoke Zero Halogen) type