

## LANmark 350 Riser

Berk-Tek's LANmark-350 Premium Category 5e UTP cables are designed to meet the most advanced UTP horizontal cable applications. Tested up to 350 MHz, the guaranteed performance of this cable far exceeds the ANSI/TIA/EIA-568-B.2 and ISO/IEC 11801 horizontal cable requirements for PS-NEXT, attenuation, structural return loss, attenuation-to-crosstalk ratio (ACR) and impedance, making it ideal for high-end transmission links supporting today's networking protocols.

### Description

#### Construction

24 AWG, bare copper wire insulated with polyethylene. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit jacketed with flame-retardant PVC.

#### Standards

North American: ANSI/TIA/EIA-568-B.2 Category 5e

#### Flame Rating

Non-Plenum-UL 1666, CMR, CMG, IEC 332-1

#### Applications

Berk-Tek's LANmark-350 Premium Category 5e UTP cable is intended for high speed data applications up to 350 MHz including:

IEEE 802.3 1000BASE-T, 100BASE-TX, 10BASE-T

155 Mb/s ATM

ANSI X3.263 100Mb/s

4/16 Mb/s Token Ring

#### Features

- Specified and tested
- Small, round design
- ETL verified to TIA/ ISO/IEC 11801
- RoHS compliant

#### Benefits

- Reliably supports today's network protocols
- Reduced installation costs and maintenance
- Lower Bit Error Rates, increases network efficiency and uptime



#### Standards

**National** TIA/EIA-568-B.2

## LANmark 350 Riser

**Contact**

Copper Product Inquiry

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Characteristics

<b>Dimensional characteristics</b>	
Length per reel	1000.0 ft
<b>Usage characteristics</b>	
Category	Cat. 5e

Technical Data - Physical

	CMR	
<b>Conductor diameter-in. (mm)</b>	0.02	(0.52)
<b>Cable diameter-in. (mm)</b>	0.187	(4.8)
<b>Nominal cable weight-lb./kft. (kg/km)</b>	20	(30)
<b>Max. installation tension-lb. (N)</b>	25	(110)
<b>Min. bend radius-in. (mm)</b>	1	(25.4)

Parametric Measurements

	Riser
<b>Mutual Capacitance</b>	4.4 nF/100 m nom.
<b>DC resistance</b>	9.38 Ohms/100 m max.
<b>Skew</b>	25 ns/100 m max.
<b>Pair to ground Unbalance</b>	330 pF/100 m max.
<b>Velocity of Propagation</b>	70% nom. Non-Plenum
<b>Input Impedance</b>	100 ± 14% 0.772-100 MHz, 100 ± [14+15log (F/100)] 100-350 MHz

Temperature Rating

<b>Installation</b>	0°C to +50°C
<b>Operation</b>	-10°C to +75°C

Color Code

<b>Pair 1</b>	White/Blue	Blue
<b>Pair 2</b>	White/Orange	Orange
<b>Pair 3</b>	White/Green	Green
<b>Pair 4</b>	White/Brown	Brown

Technical Data - Electrical

<b>HORIZONTAL</b>
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## LANmark 350 Riser

FREQ	SRL		RL		INSERTION LOSS		PS-NEXT		NEXT	
	(dB)		(dB)		(dB/100m)		(dB)		(dB)	
MHz	min.	typical	min.	typical	max.	typical	min.	typical	min.	typical
1	25.5	41.6	20.0	33.9	2.0	1.9	68.3	87.6	70.3	89.6
4	25.5	43.7	23.3	31.6	4.0	3.8	59.9	76.1	61.9	78.1
10	25.5	44.9	25.5	36.8	6.4	6.0	53.3	68.9	55.3	70.9
16	25.5	42.3	25.5	39.8	8.1	7.7	50.3	64.7	52.3	66.7
20	25.5	42.0	25.5	39.1	9.2	8.6	48.8	64.2	50.8	66.2
31.25	24.4	39.5	24.4	38.3	11.6	10.9	45.9	62.1	47.9	64.1
62.5	22.7	38.3	22.7	36.4	16.8	15.7	41.4	56.2	45.4	58.2
100	21.5	35.7	21.5	34.6	21.7	20.1	38.3	52.9	40.3	54.9
155	20.4	35.7	20.4	33.9	27.7	25.5	35.5	49.7	37.5	51.7
200	19.8	36.0	19.8	33.8	32.1	29.3	33.8	47.2	35.8	49.2
300	18.8	33.3	18.8	31.7	40.5	33.2	31.2	45.5	33.2	47.5
350	18.4	31.1	18.4	30.8	44.4	35.9	30.2	43.8	32.2	45.8
400	18.1	31.0	18.1	30.2	48.0	39.4	29.3	42.6	31.3	44.7
FREQ	ACR		PS-ACR		ELFEXT		PS-ELFEXT			
	(dB@100m)		(dB@100m)		(dB)		(dB)			
MHz	min.	typical	min.	typical	min.	typical	min.	typical		
1	68.3	83.3	66.3	81.5	66.8	83.3	63.8	77.4		
4	57.3	71.8	55.3	69.7	54.7	72.4	52.7	66.1		
10	48.9	63.1	46.9	59.9	46.8	64.5	44.8	58.2		
16	44.1	57.2	42.1	54.9	42.7	60	40.7	53.8		
20	41.6	54.9	39.6	52.9	40.7	58	38.7	51.7		
31.25	36.3	49.4	34.3	47.5	36.9	54	34.9	48.1		
62.5	26.6	38.9	24.6	37.2	30.8	48.6	28.8	41.9		
100	18.6	32	16.6	30.1	26.8	46.2	24.8	38.6		
155	9.7	23.6	7.7	21.5	23	40.9	20	33.6		
200	3.7	18	1.7	15.6	20.7	39.6	17.7	31.1		
300	-	11.5	-	9.7	17.2	35.4	14.2	28.1		
350	-	4.8	-	2.4	15.9	32.4	12.9	25.2		
400	-	-	-	-	14.7	31.4	11.7	24.9		

IMPORTANT: Berk-Tek performance guarantees are based on swept-frequency testing and apply to all frequencies for the entire specified frequency range and are not limited to the tables of data shown which are presented to demonstrate our guarantees at "representative" frequencies. Values above 350 MHz are for engineering information. Limited combustible version also available. Other jacket colors available.

### Product List

Berk-Tek P/N	Description	Type of cable	Colour	Number of pairs	Packaging
10032418	LANmark-350 Riser	UTP	Yellow	4	Reel
10032419	LANmark-350 Riser	UTP	Yellow	4	Box
10032417	LANmark-350 Riser	UTP	Yellow	4	Reel in a box
10032425	LANmark-350 Riser	UTP	Blue	4	Reel

## LANmark 350 Riser

Berk-Tek P/N	Description	Type of cable	Colour	Number of pairs	Packaging
10032426	LANmark-350 Riser	UTP	Blue	4	Box
10032424	LANmark-350 Riser	UTP	Blue	4	Reel in a box
10032446	LANmark-350 Riser	UTP	Grey	4	Reel
10032447	LANmark-350 Riser	UTP	Grey	4	Box
10032445	LANmark-350 Riser	UTP	Grey	4	Reel in a box
10032490	LANmark-350 Riser	UTP	Red	4	Reel
10032491	LANmark-350 Riser	UTP	Red	4	Box
10033697	LANmark-350 Riser	UTP	Black	4	Reel
10032480	LANmark-350 Riser	UTP	Black	4	Box
10068424	LANmark-350 Riser	UTP	Ivory	4	Reel
10044451	LANmark-350 Riser	UTP	Ivory	4	Box
10068425	LANmark-350 Riser	UTP	Light grey	4	Reel
10032427	LANmark-350 Riser	UTP	Green	4	Reel
10032428	LANmark-350 Riser	UTP	Green	4	Box
10033580	LANmark-350 Riser	UTP	Green	4	Reel in a box
10032433	LANmark-350 Riser	UTP	White	4	Reel
10032434	LANmark-350 Riser	UTP	White	4	Box
10032432	LANmark-350 Riser	UTP	White	4	Reel in a box
10032464	LANmark-350 Riser	UTP	Orange	4	Reel
10032465	LANmark-350 Riser	UTP	Orange	4	Box
10032463	LANmark-350 Riser	UTP	Orange	4	Reel in a box
10032441	LANmark-350 Riser	UTP	Pink	4	Reel
10034195	LANmark-350 Riser	UTP	Pink	4	Box
10033568	LANmark-350 Riser	UTP	Violet	4	Reel
10032440	LANmark-350 Riser	UTP	Violet	4	Box
10032439	LANmark-350 Riser	UTP	Violet	4	Reel in a box
10068427	LANmark-350 Riser	UTP	Brown	4	Reel