

## LANmark-6 Riser Rated

The NEW Berk-Tek LANmark-6 features a reduced diameter compared to other category 6 UTP cables. This is an ANSI/TIA/EIA category 6 verified cable, constructed without the center spline for easy installation and termination. LANmark-6 is capable of transmitting applications such as 1000BASE-T. It is ideal for network applications that extend to 250 MHz. LANmark-6 is available in both CMP and CMR and conforms to ANSI/TIA/EIA 568-B.2-1 Category 6 and ISO/IEC 11801 2nd Edition Class E Category 6 requirements.

### Description

#### Berk-Tek LANmark-6 UTP, Performance Guaranteed

Before any cable can display the **Berk-Tek LANmark-6 UTP** legend, it must pass factory tests with **a minimum of 2dB of crosstalk margin beyond the CAT 6 standard for NEXT, PSNEXT, ACR and PSACR**. If the margin is missing, so is the legend. That is our guarantee to you.

Your business demands continuous performance from your IT network, so our specifications aren't simply numbers on the page. They define the way that we do business. This means that you are **guaranteed** industry-leading performance and quality for all Berk-Tek products.

Some other manufacturers talk about "typical" values, at Berk-Tek, we hold ourselves to a higher standard. We won't talk about typicals, we talk about what is true, guaranteed, and independently verified.

Keep your business running by relying on Berk-Tek.

**Berk-Tek ...Because Your Business Runs Through Us.**

**Construction:** 23 AWG bare copper wire insulated with FEP. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit, jacketed with flame-retardant PVC.

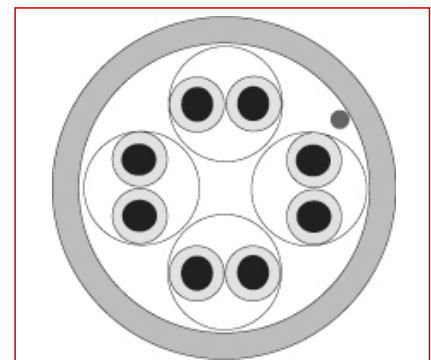
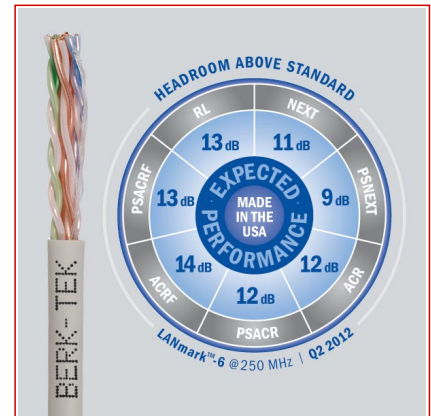
**Flame Rating:** Riser - NFPA 70, CMR

### Features

- Inexpensive compact design
- Meets the requirements of ANSI/TIA/EIA-568-C.2
- Usable bandwidth up to 250 MHz
- Delivered in compact, strong, easy to identify boxes
- RoHS Compliant

### Benefits

- Provides Category 6 performance
- Cost effective entry level category 6 solution
- Provides additional usable bandwidth required for future applications
- Superior box design allows cable to be pulled easily from the box with minimum kinking
- Compact box design takes up less shelf space.
- Clearly identified packaging eliminates potential confusion



### Standards

**International** ISO/IEC 11801

**National** ANSI/TIA-568-C.2; UL 444

## LANmark-6 Riser Rated

### Characteristics

<b>Construction characteristics</b>	
Type of cable	UTP
<b>Dimensional characteristics</b>	
Number of pairs	4
<b>Usage characteristics</b>	
Field of application	Indoor
Category	Cat. 6
Fire safety	CMR - Riser Rated

### Product List

☎=Make to order, 📦=In stock

Part Number	Description	Colour	Length per reel (ft)	Packaging
📦 10136341	LANmark-6 UTP Riser	Grey	1000.0	Reel
📦 10136338	LANmark-6 UTP Riser	Grey	1000.0	Box
📦 10136342	LANmark-6 UTP Riser	Blue	1000.0	Reel
📦 10136339	LANmark-6 UTP Riser	Blue	1000.0	Box
📦 10136343	LANmark-6 UTP Riser	White	1000.0	Reel
📦 10136340	LANmark-6 UTP Riser	White	1000.0	Box
📦 10136775	LANmark-6 UTP Riser	Yellow	1000.0	Reel
📦 10136753	LANmark-6 UTP Riser	Yellow	1000.0	Box
☎ 10170932	LANmark-6 UTP Riser	Black	1000.0	Box
📦 10136774	LANmark-6 UTP Riser	Green	1000.0	Reel
📦 10136752	LANmark-6 UTP Riser	Green	1000.0	Box
☎ 10170931	LANmark-6 UTP Riser	Red	1000.0	Box
☎ 10189773	LANmark-6 UTP Riser	Orange	1000.0	Box
☎ 11058425	LANmark-6 UTP Riser	Pink	1000.0	Box
☎ 11072302	LANmark-6 UTP Riser	Violet	1000.0	Box
📦 11074703	LANmark-6 UTP Riser 1500 ft. smartPAK	Blue	1500.0	Box
📦 11074744	LANmark-6 UTP Riser 1500 ft. smartPAK	White	1500.0	Box
📦 11074745	LANmark-6 UTP Riser 1500 ft. smartPAK	Grey	1500.0	Box

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## LANmark-6 Riser Rated

### LANmark-6 Parametric Data: Electrical

FREQ MHz	RL (dB)			NEXT (dB)			PSNEXT (dB)		
	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance
1	20.0	20.0	32.5	74.3	76.3	87.5	72.3	74.3	83.6
4	23.0	23.0	36.3	65.3	67.3	78.0	63.3	65.3	74.1
10	25.0	25.0	35.8	59.3	61.3	71.9	57.3	59.3	67.8
16	25.0	25.0	36.7	56.2	58.3	68.7	54.2	56.3	64.9
20	25.0	25.0	35.4	54.8	56.8	67.6	52.8	54.8	63.4
31.25	23.6	23.7	35.7	51.9	53.9	64.4	49.9	51.9	60.3
62.5	21.5	21.5	34.0	47.4	49.4	59.7	45.4	47.4	55.8
100	20.1	20.1	33.6	44.3	46.3	56.3	42.3	44.3	52.6
150	18.9	18.9	32.5	41.7	43.7	53.7	39.7	41.7	49.6
200	18.0	18.0	31.6	39.8	41.8	51.5	37.8	39.8	47.3
250	17.3	17.3	30.2	38.3	40.4	49.5	36.3	38.4	45.4
300	—	—	30.3	—	—	48.2	—	—	43.9
350	—	—	29.3	—	—	46.9	—	—	42.5
400	—	—	28.5	—	—	45.9	—	—	41.8
450	—	—	27.8	—	—	44.6	—	—	40.5
500	—	—	26.9	—	—	44.0	—	—	40.0

FREQ MHz	IL (dB/100m)			ACR (dB/100m)			PSACR (dB/100m)		
	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance
1	2.0	2.0	1.7	72.3	74.3	83.9	70.3	72.3	81.8
4	3.8	3.8	3.5	61.5	63.5	72.4	59.5	61.5	70.5
10	6.0	6.0	5.6	53.3	55.4	64.1	51.3	53.4	62.0
16	7.6	7.6	7.1	48.7	50.7	59.7	46.7	48.7	57.7
20	8.5	8.5	7.9	46.3	48.4	57.1	44.3	46.4	55.3
31.25	10.7	10.7	10.0	41.2	43.3	52.0	39.2	41.3	50.0
62.5	15.4	15.4	14.4	32.0	34.0	43.1	30.0	32.0	41.2
100	19.8	19.8	18.4	24.5	26.6	35.8	22.5	24.6	33.9
150	24.7	24.7	22.8	16.9	19.1	28.3	14.9	17.1	26.3
200	29.0	29.0	26.5	10.8	12.9	22.3	8.8	10.9	20.3
250	32.8	32.8	29.8	5.5	7.5	16.9	3.5	5.5	15.0
300	—	—	32.8	—	—	12.6	—	—	10.4
350	—	—	35.6	—	—	8.1	—	—	6.2
400	—	—	38.1	—	—	4.3	—	—	2.5
450	—	—	40.7	—	—	0.1	—	—	-1.6
500	—	—	43.2	—	—	-3.4	—	—	-5.0

All swept frequency values above 250 MHz are for engineering purposes only.

## LANmark-6 Riser Rated

### LANmark-6 Parametric Data: Electrical (cont.)

FREQ MHz	ACRF (dB/100m)		PSACRF (dB/100m)		LCL/TCL	EL TCTL		
	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	Product Guarantee	
1	67.8	67.8	81.7	64.8	64.8	77.5	40.0	35.0
4	55.8	55.8	69.9	52.8	52.8	65.7	40.0	23.0
10	47.8	47.8	62.0	44.8	44.8	57.5	40.0	15.0
16	43.7	43.7	58.1	40.7	40.7	53.6	38.0	10.9
20	41.8	41.8	56.1	38.8	38.8	51.6	37.0	9.0
31.25	37.9	37.9	52.2	34.9	34.9	47.8	35.1	5.1
62.5	31.9	31.9	46.1	28.9	28.9	41.8	32.0	—
100	27.8	27.8	41.8	24.8	24.8	38.1	30.0	—
150	24.3	24.3	38.2	21.3	21.3	34.5	28.2	—
200	21.8	21.8	35.6	18.8	18.8	31.9	27.0	—
250	19.8	19.8	33.7	16.8	16.8	29.7	26.0	—
300	—	—	32.3	—	—	28.0	25.2	—
350	—	—	30.5	—	—	26.7	24.6	—
400	—	—	28.8	—	—	25.3	24.0	—
450	—	—	27.3	—	—	23.1	23.5	—
500	—	—	25.1	—	—	20.8	23.0	—

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### LANmark-6 Riser UTP Physical Data

Technical Data - Physical			Color Code		
Conductor	23 AWG Bare Copper		Pair-1	White/Blue	Blue
Conductor diameter - in. (mm)	0.022	(0.58)	Pair-2	White/Orange	Orange
Insulated conductor dia.-in.(mm)	0.039	(1.04)	Pair-3	White/Green	Green
Cable diameter - in. (mm)	0.210	(5.3)	Pair-4	White/Brown	Brown
Nom. cable wt.-lb./kft. (kg/kft)	22	(9.9)	Temperature Rating (degrees C)		
Max. installation tension - lb. (N)	25	(110)	Installation	0 to +50	
Min. bend radius - in. (mm)	1	(25.4)	Operation	-20 to +75	

### LANmark-6 Riser Technical Data - Parametric Measurements

Mutual Capacitance	5.1 nF/100 m max.
DC Resistance	9.38 Ohms/100 m max.
Skew	45 ns/100 m max.
Pair to Ground Unbalance	330 pF/100 m max.
Velocity of Propagation	69% nom.
DC Resistance unbalance	5% max.

**Contact**

Copper LAN Product Inquiry  
Phone: 717-354-6200  
berktek.support@nexans.com

## LANmark-6 Riser Rated

### Supported Category 6 Applications

STANDARD	APPLICATION	SPEED
IEEE 802.3	1000BASE-T	1 Gb/s
TIA/EIA-854	1000BASE-TX	1 Gb/s
ATM	155Mb/s	155 Mb/s
IEEE 802.3	100BASE-TX	100 Mb/s
CDDI		100 Mb/s
IEEE 802.3	10BASE-T	10 Mb/s
IEEE 802.3 af	PoE	1 Gb/s
IEEE 802.3 at	PoE+, Type 1 & 2	1 Gb/s

### Selling information

PLEASE NOTE: In the interest of product improvement, Berk-Tek, a Nexans company may make improvements or changes in the products, the programs or services described at any time without notice. Additionally, the information contained herein may include typographical errors or technical inaccuracies. Changes will be periodically made to address any such issues.