

# LANmark-6 Riser Rated

## Contact

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

The 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.

Based on Berk-Tek's advanced testing, LANmark-6 has a Converged Application Score (CA Score) of 6.4 and is recommended for short-term installations, basic desktop and phone applications, and a low density of connected devices. For more information on CA Score, please click [here](#).

**Perform Beyond Expectations... Choose Berk-Tek.**

**Construction:** 24 AWG bare copper wire insulated with high density 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.

**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

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## CHARACTERISTICS

### Construction characteristics

Type of cable UTP

### Dimensional characteristics

Number of pairs 4





















### Usage characteristics

Field of application Indoor

Category Cat. 6

Fire safety CMR - Riser Rated

## PRODUCT LIST

Part Number	Description	Colour	Length per reel [ft]	Packaging
 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
 10190136	LANmark-6 UTP Riser	Red	1000.0	Reel
 11055358	LANmark-6 UTP Riser	Orange	1000.0	Reel
 11091285	LANmark-6 UTP Riser	Dark grey	1000.0	Reel
 11091257	LANmark-6 UTP Riser	Dark grey	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
 11074906	LANmark-6 UTP Riser 1500 ft. smartPAK	Yellow	1500.0	Box
 11074907	LANmark-6 UTP Riser 1500 ft. smartPAK	Green	1500.0	Box
 11074908	LANmark-6 UTP Riser 1500 ft. smartPAK	Red	1500.0	Box
 11074909	LANmark-6 UTP Riser 1500 ft. smartPAK	Black	1500.0	Box
 11074910	LANmark-6 UTP Riser 1500 ft. smartPAK	Violet	1500.0	Box
 11074911	LANmark-6 UTP Riser 1500 ft. smartPAK	Orange	1500.0	Box
 11094953	LANmark-6 UTP Riser 1500 ft. smartPAK	Dark grey	1000.0	Box
 11078894	LANmark-6- UTP Riser	Violet	1000.0	Reel

 = Make to order,  = In stock

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## LANMARK-6 RISER - TECHNICAL INFORMATION

### Electrical Characteristics

FQ = Frequency (MHz) / TIA = TIA Spec / PG = Product Guarantee

FQ	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACRF (dB)	LCL/TCL
	TIA / PG	TIA / PG	TIA / PG	TIA / PG	PG
1	20.00 / 20.00	74.30 / 76.30	72.30 / 74.30	67.80 / 67.80	40.00
4	23.00 / 23.00	65.30 / 67.30	63.30 / 65.30	55.80 / 55.80	40.00
10	25.00 / 25.00	59.30 / 61.30	57.30 / 59.30	47.80 / 47.80	40.00
16	25.00 / 25.00	56.20 / 58.30	54.20 / 56.30	43.70 / 43.70	38.00
20	25.00 / 25.00	54.80 / 56.80	41.80 / 54.80	41.80 / 41.80	37.00
31.25	23.60 / 23.60	51.90 / 53.90	49.90 / 51.90	37.90 / 37.90	35.10
62.5	21.50 / 21.50	47.40 / 49.40	45.40 / 47.40	31.90 / 31.90	32.00
100	20.10 / 20.10	44.30 / 46.30	42.30 / 44.30	27.80 / 27.80	30.00
150	18.90 / 18.90	41.70 / 43.70	39.70 / 41.70	24.30 / 24.30	28.20
200	18.00 / 18.00	39.80 / 41.80	37.80 / 39.80	21.80 / 21.70	27.00
250	17.30 / 17.30	38.30 / 40.30	36.30 / 38.30	19.80 / 19.80	26.00
300	— / 16.80*	— / 39.10*	— / 37.10*	— / 18.30*	25.20
350	— / 16.30*	— / 38.20*	— / 36.20*	— / 16.90*	24.60*
400	— / 15.90*	— / 37.30*	— / 35.30*	— / 15.80*	24.00*
450	— / 15.50*	— / 36.50*	— / 34.50*	— / 14.70*	23.50*
500	— / 15.20*	— / 35.80*	— / 33.80*	— / 13.80*	23.00*

FQ	IL (dB/100 m)	ACR (dB/100 m)	PSACR (dB/100 m)	PSACRF (dB/100 m)	EL TCTL
	TIA / PG	TIA / PG	TIA / PG	TIA / PG	PG
1	2.00 / 2.00	72.20 / 74.30	70.30 / 72.30	64.80 / 64.80	35.00
4	3.80 / 3.80	61.50 / 63.50	59.50 / 61.50	52.80 / 52.80	23.00
10	6.00 / 6.00	53.40 / 55.40	51.30 / 53.40	44.80 / 44.80	15.00
16	7.60 / 7.60	48.80 / 50.70	46.70 / 48.70	40.70 / 40.70	10.90
20	8.50 / 8.50	46.40 / 48.40	44.30 / 46.40	38.80 / 38.80	9.00
31.25	10.70 / 10.70	41.40 / 43.30	39.20 / 41.30	37.90 / 34.90	—
62.50	15.40 / 15.40	32.40 / 34.00	30.00 / 32.00	28.90 / 28.90	—
100	19.80 / 19.80	25.20 / 26.60	22.50 / 24.60	24.80 / 24.80	—
150	24.70 / 24.60	16.90 / 19.10	14.90 / 17.10	21.30 / 21.30	—
200	29.00 / 29.00	10.80 / 12.90	8.80 / 10.90	18.80 / 18.70	—
250	32.80 / 32.80	7.30 / 9.30	3.50 / 5.50	16.80 / 16.80	—
300	— / 36.40*	— / 2.70*	— / —	— / 15.30*	—
350	— / 39.80*	— / —	— / —	13.90 / 13.90*	—
400	— / 43.00*	— / —	— / —	12.80 / 12.80*	—
450	— / 46.00*	— / —	— / —	— / 11.70*	—
500	— / 48.90*	— / —	— / —	10.80 / 10.80*	—

\*Values provided for reference only

### Parametric Measurements

#### Description

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

### Color Code

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

## Supported Category 6 Applications

Standard	Application	Speed
IEEE 802.3	1000BASE-T	1 Gb/s
ATM	155 Mb/s	155 Mb/s
CDDI		100 Mb/s
IEEE 802.3	100BASE-T	10 Mb/s
IEEE 802.3 af	PoE	1 GB/s
IEEE 802.3 at	PoE+, Type 1 & 2	1 Gb/s

## Technical Data - Physical

Conductor	24 AWG Bare Copper	
Conductor Diameter - in. (mm)	0.021	(0.530)
Insulated Conductor Diameter - in. (mm)	0.038	(0.97)
Cable Diameter - in. (mm)	0.205	(5.21)
Nom. Cable Weight - lb./kft (kg/kft)	21	(9.53)
Max. Installation Tension - lb. (N)	25	(110)
Min. Bend Radius - in. (mm)	1.00	(25.40)

## LANMARK-6 CONVERGED APPLICATION SCORE

A cable's Converged Application Score (CA Score) is an indicator of how well IP traffic is protected and how much heat rise there is when the cable undergoes PoE testing. The score is represented by a numeric value between 1 and 10, with 1 being the lowest and 10 being the highest. In reality, a score of 1 is unattainable because it would represent no connection, as is a score of 10 because it would mean zero heat rise with high power PoE. CA Scores range between 2 and 9.

### LANmark-6

CA Score	Score	> 3.6	3.6 - 5.5	5.6 - 6.5	6.6 - 7.5	7.6 - 8.5	8.6 +
	Performance	Unacceptable	Poor	Limited	Good	Better	Best
	Heat Rise	Severe	Significant	Moderate	Moderate	Moderate	Low

What does the CA Score tell you? A performance rating of "Poor" (less than 3.6) means that there were consistent noticeable flaws (dropped frames, media loss, etc) in the applications tested. As you move towards higher performance scores, you would notice fewer and fewer flaws, until you reach a score of 9, which is almost flawless. PoE testing is also an important factor; cables that experienced less temperature rise achieve higher CA Scores.

## LANMARK-6 UTP RISER JACKET LEGEND

BERK-TEK LANMARK-6 24 AWG CMR 75C C(ETL)US ETL VERIFIED TIA-568-C.2 CAT 6 [ANY APPLICABLE PATENTS] [DATECODE] [SEQ#] FT

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