

**Contact**

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## LANmark-6 Riser Rated

LANmark-6 UTP Riser

Part Number: 10136339

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:** 23 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.

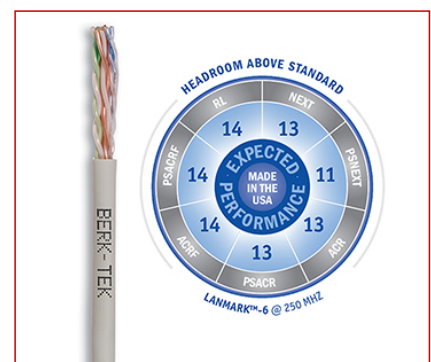
**Flame Rating:** Riser - NFPA 70, CMR

#### 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               |
| Colour                       | Blue              |
| Dimensional characteristics  |                   |
| Length per reel              | 1000.0 ft         |
| Number of pairs              | 4                 |
| Usage characteristics        |                   |
| Packaging                    | Box               |
| Field of application         | Indoor            |
| Category                     | Cat. 6            |
| Fire safety                  | CMR - Riser Rated |

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### LANmark-6 Parametric Data: Electrical

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

|       | RL (dB)       |        | NEXT (dB)      |         | PSNEXT (dB)      |        | ACRF (dB)         |        | LCL/TCL |
|-------|---------------|--------|----------------|---------|------------------|--------|-------------------|--------|---------|
| FQ    | 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*  |
|       | IL (dB/100 m) |        | ACR (dB/100 m) |         | PSACR (dB/100 m) |        | PSACRF (dB/100 m) |        | EL TCTL |
| FQ    | 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           | 7.50    | 3.50             | 5.50   | 16.80             | 16.80  | —       |
| 300   | —             | 36.40* | —              | 2.70*   | —                | —      | —                 | 15.30* | —       |
| 350   | —             | 39.80* | —              | -1.60*  | —                | —      | 13.90             | 13.90* | —       |
| 400   | —             | 43.00* | —              | -5.70*  | —                | —      | 12.80             | 12.80* | —       |
| 450   | —             | 46.00* | —              | -9.50*  | —                | —      | —                 | 11.70* | —       |
| 500   | —             | 48.90* | —              | -13.10* | —                | —      | 10.80             | 10.80* | —       |

\*Values provided for reference only

### 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              | (0.56)  | Pair-2                         | White/Orange | Orange |
| Insulated conductor dia.-in.(mm)    | 0.039              | (0.99)  | Pair-3                         | White/Green  | Green  |
| Cable diameter - in. (mm)           | 0.21               | (5.33)  | Pair-4                         | White/Brown  | Brown  |
| Nom. cable wt.-lb./kft. (kg/kft)    | 22                 | (9.98)  | Temperature Rating (degrees C) |              |        |
| Max. installation tension - lb. (N) | 25                 | (110)   | Installation                   | 0 to +50     |        |
| Min. bend radius - in. (mm)         | 1.00               | (25.40) | Operation                      | -20 to +75   |        |

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

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

#### 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.

#### 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   |

#### LANmark-6 UTP Riser Jacket Legend

BERK-TEK LANMARK-6 23 AWG CMR 75C C(ETL)US ETL VERIFIED TIA-568-C.2 CAT 6 [ANY APPLICABLE PATENTS] [DATECODE] [SEQ#] FT

#### 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.