LANmark-6 Riser Rated

LANmark-6 UTP Riser

Contact
Copper LAN Product Inquiry
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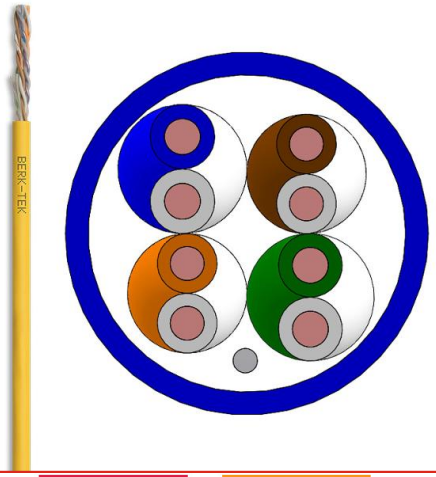

Part Number: 10136339

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-568.2-D 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.

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-568.2-D
- Usable bandwidth up to 250 MHz
- Delivered in compact, strong, easy to identify boxes
- RoHS Compliant

Benefits

STANDARDS

International ISO/IEC 11801

National ANSI/TIA 568.2-D;
UL 444

Inst. temp. range
0 .. 50 °C

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- 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

PROUDLY MADE IN THE USA

Inst. temp. range
0 .. 50 °C

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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
Recommended installation temperature range	0 .. 50 °C

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LANMARK-6 RISER - TECHNICAL INFORMATION

Electrical Characteristics

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 / 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 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

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.