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

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.

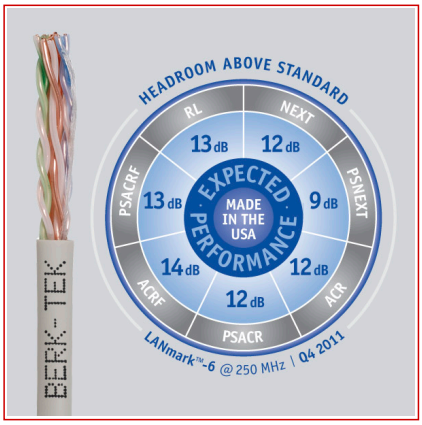
Some other manufacturers talk about "typical" values, at Berk-Tek, we hold ourselves to a higher standard. We won't talk about typicals, we talk about what is true, guaranteed, and independently verified.

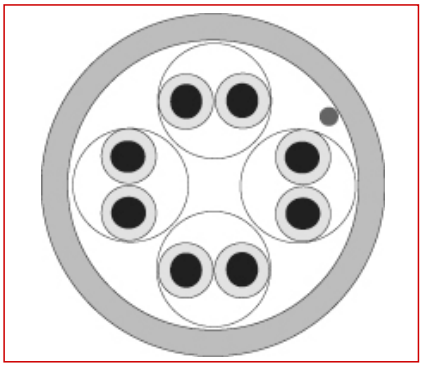
Keep your business running by relying on Berk-Tek.

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

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Characteristics

Construction characteristics	
Type of cable	UTP
Dimensional characteristics	
Length per reel	1000.0 ft
Number of pairs	4
Usage characteristics	
Field of application	Indoor
Category	Cat. 6
Fire safety	Riser Rated

Product List

=Make to order, =Make to stock

Part Number	Description	Colour	Packaging
10136341	NEW LANmark-6 UTP Riser	Grey	Reel
10136338	NEW LANmark-6 UTP Riser	Grey	Box
10136342	NEW LANmark-6 UTP Riser	Blue	Reel
10136339	NEW LANmark-6 UTP Riser	Blue	Box
10136343	NEW LANmark-6 UTP Riser	White	Reel
10136340	NEW LANmark-6 UTP Riser	White	Box
10136775	NEW LANmark-6 UTP Riser	Yellow	Reel
10136753	NEW LANmark-6 UTP Riser	Yellow	Box
10170932	NEW LANmark-6 UTP Riser	Black	Box
10136774	NEW LANmark-6 UTP Riser	Green	Reel
10136752	NEW LANmark-6 UTP Riser	Green	Box
10170931	NEW LANmark-6 UTP Riser	Red	Box
10189773	NEW LANmark-6 UTP Riser	Orange	Box

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A NEXANS COMPANY

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LANmark-6 Riser Rated

LANmark-6 Parametric Data: Electrical

	RL (dB)			NEXT (dB)			PSNEXT (dB)		
FREQ MHz	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance
1	20.0	20.0	31.3	74.3	76.3	87.7	72.3	74.3	83.6
4	23.0	23.0	36.2	65.3	67.3	78.6	63.3	65.3	74.7
10	25.0	25.0	35.8	59.3	61.3	72.0	57.3	59.3	67.9
16	25.0	25.0	37.1	56.2	58.3	68.9	54.2	56.3	65.0
20	25.0	25.0	36.0	54.8	56.8	67.7	52.8	54.8	63.8
31.25	23.6	23.7	36.5	51.9	53.9	64.6	49.9	51.9	60.6
62.5	21.5	21.5	34.4	47.4	49.4	60.0	45.4	47.4	56.0
100	20.1	20.1	33.3	44.3	46.3	56.6	42.3	44.3	52.6
150	18.9	18.9	32.6	41.7	43.7	53.7	39.7	41.7	49.9
200	18.0	18.0	32.0	39.8	41.8	51.6	37.8	39.8	47.8
250	17.3	17.3	30.6	38.3	40.4	49.9	36.3	38.4	45.4
300	—	—	30.1	—	—	47.9	—	—	43.7
350	—	—	29.3	—	—	46.8	—	—	42.4
400	—	—	29.0	—	—	45.6	—	—	41.6
450	—	—	28.2	—	—	45.0	—	—	40.8
500	—	—	27.2	—	—	43.7	—	—	39.5

	IL (dB/100m)			ACR (dB/100m)			PSACR (dB/100m)		
FREQ MHz	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	83.7	70.3	72.3	81.9
4	3.8	3.8	3.5	61.5	63.5	72.8	59.5	61.5	71.1
10	6.0	6.0	5.6	53.3	55.4	64.4	51.3	53.4	62.3
16	7.6	7.6	7.1	48.7	50.7	59.6	46.7	48.7	57.8
20	8.5	8.5	7.9	46.3	48.4	57.8	44.3	46.4	55.7
31.25	10.7	10.7	10.0	41.2	43.3	52.4	39.2	41.3	50.5
62.5	15.4	15.4	14.3	32.0	34.0	43.2	30.0	32.0	41.5
100	19.8	19.8	18.2	24.5	26.6	35.6	22.5	24.6	34.1
150	24.7	24.7	22.5	16.9	19.1	28.5	14.9	17.1	26.9
200	29.0	29.0	26.2	10.8	12.9	22.7	8.8	10.9	20.9
250	32.8	32.8	29.4	5.5	7.5	17.1	3.5	5.5	15.2
300	—	—	32.3	—	—	12.4	—	—	10.6
350	—	—	35.1	—	—	8.2	—	—	6.4
400	—	—	37.6	—	—	4.7	—	—	2.8
450	—	—	40.2	—	—	0.8	—	—	-0.8
500	—	—	42.6	—	—	-2.9	—	—	-4.7

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

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LANmark-6 Parametric Data: Electrical (cont.)

	ACRF (dB/100m)			PSACRF (dB/100m)			LCL/TCL	EL TCTL
FREQ MHz	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	Product Guarantee	Product Guarantee
1	67.8	**67.8**	82.9	64.8	**64.8**	78.6	40.0	35.0
4	55.8	**55.8**	70.8	52.8	**52.8**	66.7	40.0	23.0
10	47.8	**47.8**	63.0	44.8	**44.8**	58.9	40.0	15.0
16	43.7	**43.7**	59.1	40.7	**40.7**	54.9	38.0	10.9
20	41.8	**41.8**	57.3	38.8	**38.8**	52.9	37.0	9.0
31.25	37.9	**37.9**	53.4	34.9	**34.9**	49.0	35.1	5.1
62.5	31.9	**31.9**	46.9	28.9	**28.9**	42.3	32.0	—
100	27.8	**27.8**	42.5	24.8	**24.8**	38.5	30.0	—
150	24.3	**24.3**	39.1	21.3	**21.3**	35.0	28.2	—
200	21.8	**21.8**	36.4	18.8	**18.8**	32.6	27.0	—
250	19.8	**19.8**	34.2	16.8	**16.8**	30.2	26.0	—
300	—	—	32.4	—	—	28.7	25.2	—
350	—	—	30.6	—	—	26.9	24.6	—
400	—	—	29.6	—	—	25.8	24.0	—
450	—	—	27.8	—	—	23.9	23.5	—
500	—	—	25.8	—	—	22.0	23.0	—

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LANmark-6 Riser UTP Physical Data

Technical Data - Physical		
Conductor	23 AWG Bare Copper	
Conductor diameter - in. (mm)	0.022	(0.58)
Insulated conductor dia.-in.(mm)	0.039	(1.04)
Cable diameter - in. (mm)	0.210	(5.3)
Nom. cable wt.-lb./kft. (kg/kft)	22	(9.9)
Max. installation tension - lb. (N)	25	(110)
Min. bend radius - in. (mm)	1	(25.4)

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

Temperature Rating (degrees C)	
Installation	0 to +50
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.

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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

Selling delivery 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.