

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

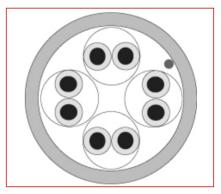
Features

- · 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

Pr	oduct List		_ =Make to order	r, 晶=Make to stock
	Part Number	Description	Colour	Packaging
品	10136341	NEW LANmark-6 UTP Riser	Grey	Reel
品	10136338	NEW LANmark-6 UTP Riser	Grey	Box
品	10136342	NEW LANmark-6 UTP Riser	Blue	Reel
品	10136339	NEW LANmark-6 UTP Riser	Blue	Box
品	10136343	NEW LANmark-6 UTP Riser	White	Reel
品	10136340	NEW LANmark-6 UTP Riser	White	Box
品	10136775	NEW LANmark-6 UTP Riser	Yellow	Reel
品	10136753	NEW LANmark-6 UTP Riser	Yellow	Box
品	10170932	NEW LANmark-6 UTP Riser	Black	Box
品	10136774	NEW LANmark-6 UTP Riser	Green	Reel
晶	10136752	NEW LANmark-6 UTP Riser	Green	Box
品	10170931	NEW LANmark-6 UTP Riser	Red	Box
品	10189773	NEW LANmark-6 UTP Riser	Orange	Box
			📞 = Make to order,	♣ = Make to stock



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LANmark-6 Riser Rated

LANmark-6 Parametric Data: Electrical

		RL (dB)		NEXT (dB)				PSNEXT (dE	3)
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	1)	А	CR (dB/100i	n)	PS	SACR (dB/10	0m)
FREQ MHz	TIA Spec	IL (dB/100m Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance
		Product	Expected		Product	<u>Expected</u>		Product	Expected
MHz	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance
MHz 1	TIA Spec 2.0	Product Guarantee 2.0	Expected Performance	TIA Spec 72.3	Product Guarantee 74.3	Expected Performance 83.7	TIA Spec 70.3	Product Guarantee 72.3	Expected Performance 81.9
MHz 1 4	TIA Spec 2.0 3.8	Product Guarantee 2.0 3.8	Expected Performance 1.7 3.5	TIA Spec 72.3 61.5	Product Guarantee 74.3 63.5	Expected Performance 83.7 72.8	TIA Spec 70.3 59.5	Product Guarantee 72.3 61.5	Expected Performance 81.9 71.1
MHz 1 4 10	TIA Spec 2.0 3.8 6.0	Product Guarantee 2.0 3.8 6.0	Expected Performance 1.7 3.5 5.6	TIA Spec 72.3 61.5 53.3	Product Guarantee 74.3 63.5 55.4	Expected Performance 83.7 72.8 64.4	TIA Spec 70.3 59.5 51.3	Product Guarantee 72.3 61.5 53.4	Expected Performance 81.9 71.1 62.3
MHz 1 4 10 16	TIA Spec 2.0 3.8 6.0 7.6	Product Guarantee 2.0 3.8 6.0 7.6	Expected <u>Performance</u> 1.7 3.5 5.6 7.1	TIA Spec 72.3 61.5 53.3 48.7	Product Guarantee 74.3 63.5 55.4 50.7	Expected <u>Performance</u> 83.7 72.8 64.4 59.6	TIA Spec 70.3 59.5 51.3 46.7	Product Guarantee 72.3 61.5 53.4 48.7	Expected <u>Performance</u> 81.9 71.1 62.3 57.8
MHz 1 4 10 16 20	TIA Spec 2.0 3.8 6.0 7.6 8.5	Product Guarantee 2.0 3.8 6.0 7.6 8.5	Expected Performance 1.7 3.5 5.6 7.1 7.9	TIA Spec 72.3 61.5 53.3 48.7 46.3	Product Guarantee 74.3 63.5 55.4 50.7 48.4	Expected Performance 83.7 72.8 64.4 59.6 57.8	TIA Spec 70.3 59.5 51.3 46.7 44.3	Product Guarantee 72.3 61.5 53.4 48.7 46.4	Expected Performance 81.9 71.1 62.3 57.8 55.7
MHz 1 4 10 16 20 31.25	TIA Spec 2.0 3.8 6.0 7.6 8.5	Product Guarantee 2.0 3.8 6.0 7.6 8.5 10.7	Expected Performance 1.7 3.5 5.6 7.1 7.9 10.0	TIA Spec 72.3 61.5 53.3 48.7 46.3 41.2	Product Guarantee 74.3 63.5 55.4 50.7 48.4 43.3	Expected Performance 83.7 72.8 64.4 59.6 57.8 52.4	TIA Spec 70.3 59.5 51.3 46.7 44.3 39.2	Product Guarantee 72.3 61.5 53.4 48.7 46.4 41.3	Expected Performance 81.9 71.1 62.3 57.8 55.7 50.5
MHz 1 4 10 16 20 31.25 62.5	TIA Spec 2.0 3.8 6.0 7.6 8.5 10.7	Product Guarantee 2.0 3.8 6.0 7.6 8.5 10.7 15.4	Expected Performance 1.7 3.5 5.6 7.1 7.9 10.0 14.3	TIA Spec 72.3 61.5 53.3 48.7 46.3 41.2 32.0	Product Guarantee 74.3 63.5 55.4 50.7 48.4 43.3 34.0	Expected Performance 83.7 72.8 64.4 59.6 57.8 52.4 43.2	TIA Spec 70.3 59.5 51.3 46.7 44.3 39.2 30.0	Product Guarantee 72.3 61.5 53.4 48.7 46.4 41.3 32.0	Expected Performance 81.9 71.1 62.3 57.8 55.7 50.5 41.5
MHz 1 4 10 16 20 31.25 62.5 100	TIA Spec 2.0 3.8 6.0 7.6 8.5 10.7 15.4 19.8	Product Guarantee 2.0 3.8 6.0 7.6 8.5 10.7 15.4 19.8	Expected Performance 1.7 3.5 5.6 7.1 7.9 10.0 14.3 18.2	TIA Spec 72.3 61.5 53.3 48.7 46.3 41.2 32.0 24.5	Product Guarantee 74.3 63.5 55.4 50.7 48.4 43.3 34.0 26.6	Expected Performance 83.7 72.8 64.4 59.6 57.8 52.4 43.2 35.6	TIA Spec 70.3 59.5 51.3 46.7 44.3 39.2 30.0 22.5	Product Guarantee 72.3 61.5 53.4 48.7 46.4 41.3 32.0 24.6	Expected Performance 81.9 71.1 62.3 57.8 55.7 50.5 41.5 34.1
MHz 1 4 10 16 20 31.25 62.5 100 150	TIA Spec 2.0 3.8 6.0 7.6 8.5 10.7 15.4 19.8 24.7	Product Guarantee 2.0 3.8 6.0 7.6 8.5 10.7 15.4 19.8 24.7	Expected Performance 1.7 3.5 5.6 7.1 7.9 10.0 14.3 18.2 22.5	TIA Spec 72.3 61.5 53.3 48.7 46.3 41.2 32.0 24.5 16.9	Product Guarantee 74.3 63.5 55.4 50.7 48.4 43.3 34.0 26.6 19.1	Expected Performance 83.7 72.8 64.4 59.6 57.8 52.4 43.2 35.6 28.5	TIA Spec 70.3 59.5 51.3 46.7 44.3 39.2 30.0 22.5 14.9	Product Guarantee 72.3 61.5 53.4 48.7 46.4 41.3 32.0 24.6	Expected Performance 81.9 71.1 62.3 57.8 55.7 50.5 41.5 34.1 26.9
MHz 1 4 10 16 20 31.25 62.5 100 150 200	TIA Spec 2.0 3.8 6.0 7.6 8.5 10.7 15.4 19.8 24.7 29.0	Product Guarantee 2.0 3.8 6.0 7.6 8.5 10.7 15.4 19.8 24.7 29.0	Expected Performance 1.7 3.5 5.6 7.1 7.9 10.0 14.3 18.2 22.5 26.2	TIA Spec 72.3 61.5 53.3 48.7 46.3 41.2 32.0 24.5 16.9 10.8	Product Guarantee 74.3 63.5 55.4 50.7 48.4 43.3 34.0 26.6 19.1 12.9	Expected Performance 83.7 72.8 64.4 59.6 57.8 52.4 43.2 35.6 28.5 22.7	TIA Spec 70.3 59.5 51.3 46.7 44.3 39.2 30.0 22.5 14.9 8.8	Product Guarantee 72.3 61.5 53.4 48.7 46.4 41.3 32.0 24.6 17.1 10.9	Expected Performance 81.9 71.1 62.3 57.8 55.7 50.5 41.5 34.1 26.9 20.9
MHz 1 4 10 16 20 31.25 62.5 100 150 200 250	TIA Spec 2.0 3.8 6.0 7.6 8.5 10.7 15.4 19.8 24.7 29.0 32.8	Product Guarantee 2.0 3.8 6.0 7.6 8.5 10.7 15.4 19.8 24.7 29.0	Expected Performance 1.7 3.5 5.6 7.1 7.9 10.0 14.3 18.2 22.5 26.2 29.4	TIA Spec 72.3 61.5 53.3 48.7 46.3 41.2 32.0 24.5 16.9 10.8	Product Guarantee 74.3 63.5 55.4 50.7 48.4 43.3 34.0 26.6 19.1 12.9 7.5	Expected Performance 83.7 72.8 64.4 59.6 57.8 52.4 43.2 35.6 28.5 22.7 17.1	TIA Spec 70.3 59.5 51.3 46.7 44.3 39.2 30.0 22.5 14.9 8.8	Product Guarantee 72.3 61.5 53.4 48.7 46.4 41.3 32.0 24.6 17.1 10.9	Expected Performance 81.9 71.1 62.3 57.8 55.7 50.5 41.5 34.1 26.9 20.9 15.2
MHz 1 4 10 16 20 31.25 62.5 100 150 200 250 300	TIA Spec 2.0 3.8 6.0 7.6 8.5 10.7 15.4 19.8 24.7 29.0 32.8	Product Guarantee 2.0 3.8 6.0 7.6 8.5 10.7 15.4 19.8 24.7 29.0	Expected Performance 1.7 3.5 5.6 7.1 7.9 10.0 14.3 18.2 22.5 26.2 29.4 32.3	TIA Spec 72.3 61.5 53.3 48.7 46.3 41.2 32.0 24.5 16.9 10.8	Product Guarantee 74.3 63.5 55.4 50.7 48.4 43.3 34.0 26.6 19.1 12.9 7.5	Expected Performance 83.7 72.8 64.4 59.6 57.8 52.4 43.2 35.6 28.5 22.7 17.1 12.4	TIA Spec 70.3 59.5 51.3 46.7 44.3 39.2 30.0 22.5 14.9 8.8	Product Guarantee 72.3 61.5 53.4 48.7 46.4 41.3 32.0 24.6 17.1 10.9	Expected Performance 81.9 71.1 62.3 57.8 55.7 50.5 41.5 34.1 26.9 20.9 15.2 10.6
MHz 1 4 10 16 20 31.25 62.5 100 150 200 250 300 350	TIA Spec 2.0 3.8 6.0 7.6 8.5 10.7 15.4 19.8 24.7 29.0 32.8	Product Guarantee 2.0 3.8 6.0 7.6 8.5 10.7 15.4 19.8 24.7 29.0	Expected Performance 1.7 3.5 5.6 7.1 7.9 10.0 14.3 18.2 22.5 26.2 29.4 32.3 35.1	TIA Spec 72.3 61.5 53.3 48.7 46.3 41.2 32.0 24.5 16.9 10.8	Product Guarantee 74.3 63.5 55.4 50.7 48.4 43.3 34.0 26.6 19.1 12.9 7.5	Expected Performance 83.7 72.8 64.4 59.6 57.8 52.4 43.2 35.6 28.5 22.7 17.1 12.4 8.2	TIA Spec 70.3 59.5 51.3 46.7 44.3 39.2 30.0 22.5 14.9 8.8	Product Guarantee 72.3 61.5 53.4 48.7 46.4 41.3 32.0 24.6 17.1 10.9	Expected Performance 81.9 71.1 62.3 57.8 55.7 50.5 41.5 34.1 26.9 20.9 15.2 10.6 6.4

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

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All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.



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LANmark-6 Riser Rated

LANmark-6 Parametric Data: Electrical (cont.)

		ACRF (dB/100	m)	Р	SACRF (dB/10	00m)	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 B	are Copper	
Conductor diameter - in. (mm)	0.022	(0.58)	
Insulated conductor diain.(mm)	0.039	(1.04)	
Cable diameter - in. (mm)	0.210	(5.3)	
Nom. cable wtlb./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

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