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

LANmark-10G2 Augmented Category 6 Riser Rated

LANmark™-10G2 is a next generation cable for 10 gigabit Ethernet. LANmark-10G2 is a true multi-media cable and is specifically designed to handle voice, video and data simultaneously. This convergence of technologies simplifies even the most dynamic network. The 10G2 is a breakthrough in cable technology, and its patented design minimizes alien crosstalk while maintaining a nominal .32" outside diameter (CMR).

Description

Berk-Tek LANmark-10G2, Performance Guaranteed

Before any cable can display the Berk-Tek LANmark-10G2 legend, it must pass factory tests with a minimum of 2dB of margin for NEXT & PSNEXT and 4dB of margin for ACRF & PSACRF beyond the CAT 6A standard. 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

Bare copper wire insulated with polyethylene and cellular polyethylene. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit made round with 3 monofilaments and with a striated flame-retardant PVC jacket.

Flame Rating

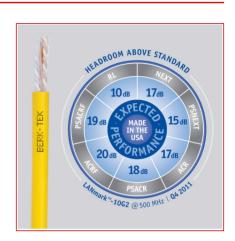
- Riser UL 1666, CMR
- ETL Listed

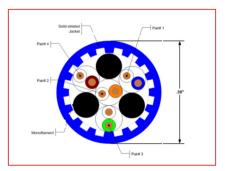
Features

- New flexible, round, compact design
- Alien Crosstalk compliant
- Fully compliant to Augmented Category 6 requirements
- Documented balance characteristics (LCL/TCL, EL TCTL)
- · Reduced attenuation (Insertion Loss)
- · Highest performing UTP cable available
- · RoHS Compliant

Benefits

- Easier installation and cable management with round design
- · Round design provides a true OD measurement
- Provides the bandwidth required for multimedia, broadband video, analog video and other future applications
- Balance characteristics improves overall cable performance and reduce transmission errors
- Characterized to 750 MHz, 250 MHz greater than the standard
- Improved insertion loss for stronger signal to noise ratio





Standards

National ANSI/TIA-568-C.2; UL 444



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Characteristics

1000.0 ft
4
Reel
Indoor
Cat. 6a
ser Rated

Pro	oduct List		ぐ =Make to order, 鳰 =Make to stock
	Part Number	Description	Colour
晶	10137700	LANmark-10G2 Augmented Category 6a Riser	Blue
晶	10138770	LANmark-10G2 Augmented Category 6a Riser	Green
晶	10137704	LANmark-10G2 Augmented Category 6a Riser	Black
晶	10138768	LANmark-10G2 Augmented Category 6a Riser	Red
晶	10137702	LANmark-10G2 Augmented Category 6a Riser	Violet
品	10137701	LANmark-10G2 Augmented Category 6a Riser	Grey
品	10137703	LANmark-10G2 Augmented Category 6a Riser	White
品	10137706	LANmark-10G2 Augmented Category 6a Riser	Yellow
品	10138769	LANmark-10G2 Augmented Category 6a Riser	Pink
晶	10138772	LANmark-10G2 Augmented Category 6a Riser	Orange
			■ = Make to order, ■ = Make to stock



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LANmark-10G2 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	30.2	74.3	76.3	92.3	72.3	74.3	88.3
4	23.0	23.0	32.5	65.3	67.3	83.4	63.3	65.3	79.1
10	25.0	25.0	32.2	59.3	61.3	76.7	57.3	59.3	72.8
16	25.0	25.0	34.3	56.2	58.3	73.8	54.2	56.3	69.8
20	25.0	25.0	35.2	54.8	56.8	72.4	52.8	54.8	68.1
31.25	23.6	23.7	35.9	51.9	53.9	68.9	49.9	51.9	64.9
62.5	21.5	21.5	34.6	47.4	49.4	65.1	45.4	47.4	60.9
100	20.1	20.1	32.5	44.3	46.3	61.8	42.3	44.3	57.8
150	18.9	18.9	31.4	41.7	43.7	59.4	39.7	41.7	55.3
200	18.0	18.0	31.3	39.8	41.8	57.2	37.8	39.8	53.4
250	17.3	17.3	30.1	38.3	40.4	56.1	36.3	38.4	52.1
300	16.8	16.8	29.0	37.1	39.2	55.0	35.1	37.2	50.9
350	16.3	16.3	28.6	36.1	38.2	54.0	34.1	36.2	49.9
400	15.9	15.9	28.0	35.3	37.3	53.2	33.3	35.3	49.1
450	15.5	15.5	27.5	34.5	36.5	51.9	32.5	34.5	48.0
500	15.2	15.2	25.1	33.8	35.8	50.7	31.8	33.8	46.6
		IL (dB/100m)			ACR (dB/100m)		PSACR (dB/100	m)
FREQ MHz	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance
1	2.1	2.1	1.7	72.2	74.2	88.2	70.2	72.2	86.5
4	3.8	3.8	3.4	61.5	63.5	76.9	59.5	61.5	75.6
10	5.9	5.9	5.4	53.4	55.4	68.8	51.4	53.4	67.2
16	7.5	7.5	6.9	48.8	50.8	64.2	46.8	48.8	62.8
20	8.4	8.4	7.7	46.4	48.5	61.8	44.4	46.5	60.2
31.25	10.5	10.5	9.7	41.4	43.5	56.4	39.4	41.5	55.0
62.5	15.0	15.0	13.9	32.4	34.4	48.3	30.4	32.4	46.7
100	19.1	19.1	17.7	25.2	27.3	41.1	23.2	25.3	39.8
150	23.7	23.6	21.8	18.0	20.1	34.6	16.0	18.1	33.0
200	27.6	27.6	25.5	12.2	14.3	29.1	10.2	12.3	27.5
250	31.1	31.0	28.6	7.3	9.3	24.7	5.3	7.3	23.0
300	34.3	34.2	31.5	2.9	5.0	20.2	0.9	3.0	18.9
350	37.2	37.1	34.1	-1.1	1.1	16.7	-3.1	-0.9	15.1
400	40.1	39.8	36.6	-4.8	-2.5	13.4	-6.8	-4.5	11.9
450	42.7	42.6	39.1	-8.2	-6.1	9.5	-10.2	-8.1	8.2
500	45.3	45.3	41.5	-11.4	-9.4	5.9	-13.4	-11.4	4.4
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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-10G2 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	71.8	87.5	64.8	68.8	83.2	40.0	35.0
4	55.8	59.7	76.0	52.8	56.7	71.6	40.0	23.0
10	47.8	51.8	68.1	44.8	48.8	63.9	40.0	15.0
16	43.7	47.7	64.3	40.7	44.7	60.2	38.0	10.9
20	41.8	45.8	62.3	38.8	42.8	58.3	37.0	9.0
31.25	37.9	41.9	58.3	34.9	38.9	54.4	35.1	5.1
62.5	31.9	35.8	52.3	28.9	32.8	48.3	32.0	_
100	27.8	31.8	48.1	24.8	28.8	44.0	30.0	_
150	24.3	28.3	44.6	21.3	25.3	40.5	28.2	_
200	21.8	25.7	42.0	18.8	22.7	37.8	27.0	_
250	19.8	23.8	39.9	16.8	20.8	36.1	26.0	_
300	18.3	22.2	38.6	15.3	19.2	34.7	25.2	_
350	16.9	20.9	37.3	13.9	17.9	33.3	24.6	_
400	15.8	19.8	36.1	12.8	16.8	32.5	24.0	_
450	14.7	18.7	35.1	11.7	15.7	31.1	23.5	_
500	13.8	17.8	33.8	10.8	14.8	29.6	23.0	_

LANmark-10G2 Riser UTP Physical Data

Technical Data - Physical				
Conductor 23 AWG Bare Copper				
Conductor diameter - in. (mm)	0.023	(0.58)		
Insulated conductor diain.(mm)	0.047	(1.04)		
Cable diameter - in. (mm)	0.320	(8.13)		
Nom. cable wtlb./kft. (kg/kft)	46	(20.9)		
Max. installation tension - lb. (N)	25	(110)		
Min. bend radius - in. (mm)	1.3	(25.4)		

Color Code			
White/Blue	Blue		
White/Orange	Orange		
White/Green	Green		
White/Brown	Brown		
	White/Blue White/Orange White/Green		

Temperature Rating (degrees C)			
Installation	0 to +50		
Operation	-20 to +76		

LANmark-10G2 Riser Technical Data - Parametric Measurements

Mutual Capacitance	5.6 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	66% nom.
DC Resistance unbalance	4% max.

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Supported CAT 6a Applications

STANDARD	APPLICATION	SPEED
IEEE 802.3an	10GBASE-T	10 Gb/s
IEEE 802.3	1000BASE-T	1 Gb/s
TIA/EIA 854	1000BASE-TX	1 Gb/s
ATM	155 Mb/s	155 Mb/s
CDDI		100 Mb/s
IEEE 802.3	10 BASE-T	10 Mb/s

Selling delivery information

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