

LANmark-1000 Enhanced Category 6 Riser Rated

LANmark-1000 Riser

Contact

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

Part Number: 10042063

LANmark-1000 has been improved to offer best-in-class electrical performance. Berk-Tek's engineers completely redesigned LANmark-1000 so that all crosstalk parameters could be improved by five dB. As a result, the Power Sum Attenuation to Crosstalk ratio (PSACR) is nearly 3 times better (at 250 MHz) allowing for much greater signal strength and less vulnerability to noise interference. At Berk-Tek, we understand that your business runs through us.

DESCRIPTION

Berk-Tek LANmark-1000, Performance Guaranteed

Before any cable can display the **Berk-Tek LANmark-1000** legend, it must pass factory tests with **a minimum of 5dB 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

23 AWG bare copper wire insulated with polyethylene. Two insulated conductors twisted together to form a pair and four such pairs laid up with crossfiller to form the basic unit, jacketed with flame-retardant PVC.

Flame Rating

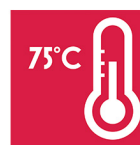
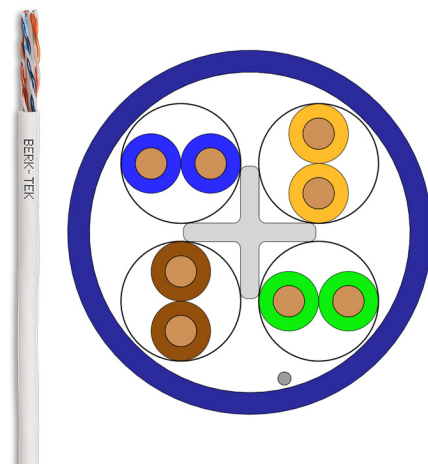
Riser - UL 1666, CMR, UL Listed

Features

- Full Power Sum Performance
- Documented balance characteristics (LCL, LCTL)
- ETL verified to ANSI/TIA-568.2-D standard
- RoHS Compliant

Benefits

- Optimal support for Gigabit Ethernet with headroom
- Power sum characterization gives highest performance using existing applications
- Provides additional bandwidth required for future applications
- Addition of balance requirements improves overall cable performance and reduces cable emissions which results in reduced transmission errors
- Characterized to 550 MHz, 300 MHz greater than the standard



STANDARDS

International ISO/IEC 11801

National ANSI/TIA 568.2-D;
UL 444

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CHARACTERISTICS

Construction characteristics

Type of cable	UTP
Colour	Pink

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-1000 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 / 79.30	72.30 / 77.30	67.80 / 72.80	50.00
4	23.00 / 23.60	65.30 / 70.30	63.30 / 68.30	55.80 / 60.70	44.00
10	25.00 / 26.00	59.30 / 64.30	57.30 / 62.30	47.80 / 52.80	40.00
16	25.00 / 26.00	56.20 / 61.30	54.20 / 59.30	43.70 / 48.70	38.00
20	25.00 / 26.00	54.80 / 59.80	41.80 / 57.80	41.80 / 46.80	37.00
31.25	23.60 / 25.00	51.90 / 56.90	49.90 / 54.90	37.90 / 42.90	35.10
62.5	21.50 / 23.50	47.40 / 52.40	45.40 / 50.40	31.90 / 36.80	32.00
100	20.10 / 22.50	44.30 / 49.30	42.30 / 47.30	27.80 / 32.80	30.00
150	18.90 / 21.60	41.70 / 46.70	39.70 / 44.70	24.30 / 29.30	28.20
200	18.00 / 21.00	39.80 / 44.80	37.80 / 42.80	21.80 / 26.70	27.00
250	17.30 / 20.50	38.30 / 43.30	36.30 / 41.30	19.80 / 24.80	26.00
300	— / 20.10	— / 42.10	— / 40.10	— / 23.30	25.20
350	— / 19.80	— / 41.20	— / 39.20	— / 21.90	24.60
400	— / 19.50*	— / 40.30*	— / 38.30*	— / 20.70*	24.00*
450	— / 19.20*	— / 39.50*	— / 37.50*	— / 19.70*	23.50*
500	— / 19.00*	— / 38.80*	— / 36.80*	— / 18.80*	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 / 77.30	70.30 / 75.30	64.80 / 69.80	35.00
4	3.80 / 3.80	61.50 / 66.60	59.50 / 64.50	52.80 / 57.70	23.00
10	6.00 / 5.90	53.40 / 58.40	51.30 / 56.40	44.80 / 49.80	15.00
16	7.60 / 7.50	48.80 / 53.80	46.70 / 51.70	40.70 / 45.70	10.90
20	8.50 / 8.40	46.40 / 51.40	44.30 / 49.40	38.80 / 43.80	9.00
31.25	10.70 / 10.60	41.40 / 46.40	39.20 / 44.30	37.90 / 39.90	—
62.50	15.40 / 15.30	32.40 / 37.10	30.00 / 35.10	28.90 / 33.80	—
100	19.80 / 19.70	25.20 / 29.70	22.50 / 27.60	24.80 / 29.80	—
150	24.70 / 24.50	16.90 / 22.20	14.90 / 20.20	21.30 / 26.30	—
200	29.00 / 28.80	10.80 / 16.00	8.80 / 14.00	18.80 / 23.70	—
250	32.80 / 32.60	7.30 / 10.80	3.50 / 8.70	16.80 / 21.80	—
300	— / 36.20	— / 6.00	— / 4.00	— / 20.30	—
350	— / 39.50	— / 1.70	— / —	13.90 / 18.90	—
400	— / 42.70*	— / —	— / —	12.80 / 17.70*	—
450	— / 45.70*	— / —	— / —	— / 16.70*	—
500	— / 48.60*	— / —	— / —	10.80 / 15.80*	—

*Values provided for reference only

Parametric Measurements

Description

Mutual Capacitance	5.1 nF Ohms/100m max.
DC Resistance	9.38 Ohms/100m max.
Skew	45 ns/100m max.
Pair-to-Ground Unbalance	330 pF/100m max.
Velocity of Propagation	68% nom.
DC Resistance Unbalance	5% max.

Color Code

Pair-1	White/Blue	Blue
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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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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
IEEE 802.3 bt	PoE++, Type 3 & 4, draft	10 Gb/s

Technical Data - Physical

Conductor	23 AWG Bare Copper	
Conductor Diameter - in. (mm)	0.022	(0.56)
Insulated Conductor Diameter - in. (mm)	0.039	(0.99)
Cable Diameter - in. (mm)	0.230	(5.84)
Nom. Cable Weight - lb./kft (kg/kft)	25	(11.34)
Max. Installation Tension - lb. (N)	25	(110)
Min. Bend Radius - in. (mm)	1.00	(25.40)

LANMARK-1000 RISER JACKET LEGEND

BERK-TEK LANMARK-1000 23 AWG CMR 75C (UL)US ETL VERIFIED TIA-568.2-D CAT 6 [ANY APPLICABLE PATENTS] [DATECODE] [SEQ#] FT

SELLING INFORMATION

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