

# LANmark-350 Riser Rated Premium Category 5e UTP

## LANmark-350 Riser

### Contact

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

**Part Number:** 10032440

Berk-Tek's LANmark-350 Premium Category 5e UTP cables are designed to meet the most advanced UTP horizontal cable applications. Tested up to 350 MHz, the guaranteed performance of this cable far exceeds the ANSI/TIA/EIA-568-C.2 and ISO/IEC 11801 horizontal cable requirements for PS-NEXT, attenuation, structural return loss, attenuation-to-crosstalk ratio (ACR) and impedance, making it ideal for high-end transmission links supporting today's networking protocols.

## DESCRIPTION

### Berk-Tek LANmark-350, Performance Guaranteed

Before any cable can display the **Berk-Tek LANmark-350** legend, it must pass factory tests with a **minimum of margin of 3dB for ACRF & PSACRF, 5 dB for NEXT & ACR and 6dB of margin for PSNEXT & PSACR beyond the CAT 5e 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.

***Perform Beyond Expectations... Choose Berk-Tek.***

#### Construction

Bare copper wire insulated with 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 - UL 1666, CMR
- ETL Listed

#### Features

- Small, round design
- ETL verified to TIA/EIA-568-C.2 and ISO/IEC 11801
- RoHS Compliant



## STANDARDS

**International** ISO/IEC 11801

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

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### Benefits

- Reliably supports 100BASE-TX Ethernet
- Reduced installation costs and maintenance
- Characterized to 450 MHz, 350 MHz greater than standard
- Lower bit error rates, increases network efficiency and uptime

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## CHARACTERISTICS

### Construction characteristics

Type of cable	UTP
Colour	Violet

### Dimensional characteristics

Length per reel	1000.0 ft
Number of pairs	4

### Usage characteristics

Packaging	Box
Field of application	Indoor
Category	Cat. 5e
Fire safety	CMR - Riser Rated

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## LANMARK-350 PARAMETRIC DATA: ELECTRICAL

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	65.30	70.30	62.30	68.30	63.80	66.80	40.00
4	23.00	23.30	56.30	61.30	53.30	59.30	51.80	54.70	40.00
10	25.00	25.50	50.30	55.30	47.30	53.30	43.80	46.80	40.00
16	25.00	25.50	47.20	52.30	44.20	50.30	39.70	42.70	38.00
20	25.00	25.50	45.80	50.80	42.80	48.80	37.80	40.70	37.00
31.25	23.60	24.40	42.90	47.90	39.90	45.90	33.90	36.90	35.10
62.5	21.50	22.70	38.40	43.40	35.40	41.40	27.90	30.80	32.00
100	20.10	21.40	35.30	40.30	32.30	38.30	23.80	26.80	30.00
150	—	20.50	—	37.70	—	35.70	—	23.30	28.20
200	—	19.80	—	35.80	—	33.80	—	20.70	27.00
250	—	19.20	—	34.30	—	32.30	—	18.80	26.00
300	—	18.80	—	33.20	—	31.20	—	17.30	25.20
350	—	18.40	—	32.20	—	30.20	—	15.90	24.60
400	—	18.10*	—	31.30*	—	29.30	—	14.70	24.00*
	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	63.30	68.30	60.30	66.30	60.80	63.80	35.00
4	4.10	4.00	52.20	57.30	49.20	55.30	48.80	51.70	23.00
10	6.50	6.40	43.80	48.90	40.80	46.90	40.80	43.80	15.00
16	8.20	8.10	39.00	44.10	36.00	42.10	36.70	39.70	10.90
20	9.30	9.20	36.50	41.60	33.50	39.60	34.80	37.70	9.00
31.25	11.70	11.60	31.20	36.30	28.20	34.30	30.90	33.90	5.10
62.50	17.00	16.80	21.40	26.60	18.40	24.60	24.90	27.80	—
100	22.00	21.70	13.30	18.60	10.30	16.60	20.80	23.80	—
150	—	27.20	—	10.40	—	8.40	—	20.30	—
200	—	32.10	—	3.70	—	1.70	—	17.70	—
250	—	36.50	—	-2.10	—	-4.10	—	15.80	—
300	—	40.50	—	-7.40	—	-9.40	—	14.30	—
350	—	44.40	—	-12.20	—	-14.20	—	12.90	—
400	—	48.00*	—	-16.80*	—	-18.80*	—	11.70*	—

\*Values provided for reference only

## LANMARK-350 RISER UTP PHYSICAL DATA

Technical Data - Physical			Color Code		
Conductor	24 AWG Bare Copper		Pair-1	White/Blue	Blue
Conductor diameter - in. (mm)	0.020	(0.51)	Pair-2	White/Orange	Orange
Insulated conductor dia.-in.(mm)	0.036	(0.91)	Pair-3	White/Green	Green
Cable diameter - in. (mm)	0.19	(4.83)	Pair-4	White/Brown	Brown
Nom. cable wt.-lb./kft. (kg/kft)	20	(9.07)	Temperature Rating (degrees C)		
Max. installation tension - lb. (N)	25	(110)	Installation	0 to +50	
Min. bend radius - in. (mm)	1.00	(25.40)	Operation	-20 to +75	

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-350 RISER TECHNICAL DATA - PARAMETRIC MEASUREMENTS

Mutual Capacitance	4.9 nF/100 m max.	Pair to Ground Unbalance	330 pF/100 m max.
DC Resistance	9.38 Ohms/100 m max.	Velocity of Propagation	70% nom.
Skew	45 ns/100 m max.	DC Resistance unbalance	5% max.

### SUPPORTED CATEGORY 5E APPLICATIONS

STANDARD	APPLICATION	SPEED
IEEE 802.3	1000BASE-T	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

### LANMARK-350 UTP RISER JACKET LEGEND

BERK-TEK LANMARK-350 24 AWG CMR 75C C(ETL)US MEETS UL 444 ETL VERIFIED TIA-568-C.2 CAT 5E & ISO/IEC 11801 CAT 5 [ANY APPLICABLE PATENTS] [DATECODE] [SEQ#] FT

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