

Contact

Copper LAN Product Inquiry
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LANmark-350 Plenum Rated Premium Category 5e UTP

LANmark-350 Plenum
Part Number: 10032072

Berk-Tek's LANmark-350 Premium Category 5e UTP cables are ideally suited to support 100BASE-TX Ethernet. Tested up to 450 MHz, the guaranteed performance of this cable far exceeds the ANSI/TIA/EIA-568-C.2 and ISO/IEC 11801 Category 5e horizontal cable requirements for PSNEXT, attenuation, return loss, attenuation-to-crosstalk ratio (ACR) and impedance.

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 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

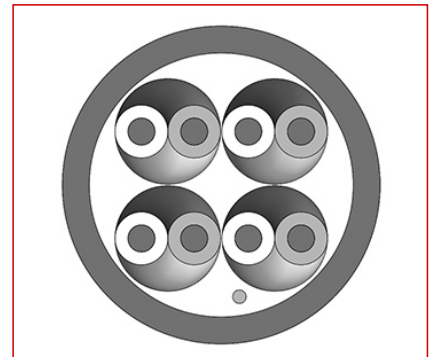
- Plenum - NFPA 262, CMP
- UL Listed

Features

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

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



Standards

International ISO/IEC 11801

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

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Characteristics

Construction characteristics	
Type of cable	UTP
Colour	White
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	CMP - Plenum Rated

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LANmark-350 Parametric Data: Electrical

FQ = Frequency (MHz) / TIA = TIA Spec / PG = Product Guarantee

FQ	RL (dB)		NEXT (dB)		PSNEXT (dB)		ACRF (dB)		LCL/TCL
	TIA / PG	TIA / PG	TIA / PG	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*				

FQ	IL (dB/100 m)		ACR (dB/100 m)		PSACR (dB/100 m)		PSACRF (dB/100 m)		EL TCTL
	TIA / PG	TIA / PG	TIA / PG	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 Plenum 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)	0.21	(5.33)	Pair-4	White/Brown	Brown
Nom. cable wt.-lb./kft. (kg/kft)	24	(10.89)	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	

LANmark-350 Plenum Technical Data - Parametric Measurements

Mutual Capacitance	4.9 nF/100 m max.	Pair to Ground Unbalance	330 pF/100 m max.
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DC Resistance	9.38 Ohms/100 m max.	Velocity of Propagation	66% 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 Plenum Jacket Legend

BERK-TEK LANMARK-350 24 AWG CMP 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

Selling 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.