

Contact

Copper LAN Product Inquiry
Phone: 717-354-6200
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LANmark-350 Plenum Rated Premium Category 5e UTP

LANmark-350 Plenum

Part Number: 10032060

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.

Berk-Tek ...Because Your Business Runs Through Us.

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

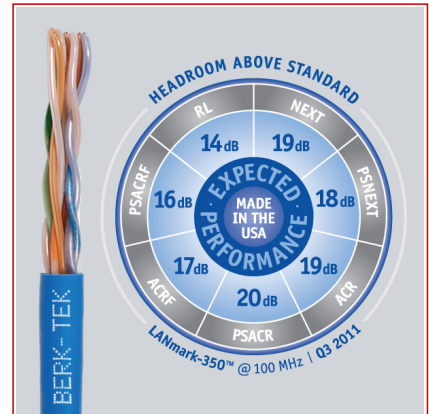
- Plenum - NFPA 262, CMP
- UL Listed

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	Yellow
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	Plenum Rated

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LANmark-350 Parametric Data: Electrical

FREQ MHz	RL (dB)			NEXT (dB)			PSNEXT (dB)		
	TIA Spec	Product Guarantee	<u>Expected Performance</u>	TIA Spec	Product Guarantee	<u>Expected Performance</u>	TIA Spec	Product Guarantee	<u>Expected Performance</u>
1	20.0	20.0	31.9	65.3	70.3	85.2	62.3	68.3	81.0
4	23.0	23.3	34.1	56.3	61.3	75.3	53.3	59.3	71.3
10	25.0	25.5	33.1	50.3	55.3	68.8	47.3	53.3	64.9
16	25.0	25.5	37.4	47.2	52.3	66.2	44.2	50.3	62.2
20	25.0	25.5	37.3	45.8	50.8	64.2	42.8	48.8	60.4
31.25	23.6	24.4	36.6	42.9	47.9	61.3	39.9	45.9	57.2
62.5	21.5	22.7	33.1	38.4	43.4	56.9	35.4	41.4	53.0
100	20.1	21.5	33.7	35.3	40.3	54.1	32.3	38.3	50.4
150	—	20.5	32.4	—	37.7	51.4	—	35.7	47.3
200	—	19.8	31.7	—	35.8	49.3	—	33.8	45.3
250	—	19.3	31.2	—	34.4	47.5	—	32.4	43.3
300	—	18.8	30.5	—	33.2	45.3	—	31.2	41.0
350	—	18.4	25.9	—	32.2	43.8	—	30.2	39.6
400	—	—	26.8	—	—	43.1	—	—	39.1
450	—	—	27.7	—	—	41.8	—	—	37.7

FREQ MHz	IL (dB/100m)			ACR (dB/100m)			PSACR (dB/100m)		
	TIA Spec	Product Guarantee	<u>Expected Performance</u>	TIA Spec	Product Guarantee	<u>Expected Performance</u>	TIA Spec	Product Guarantee	<u>Expected Performance</u>
1	2.0	2.0	1.8	63.3	68.3	80.6	60.3	66.3	79.1
4	4.1	4.0	3.7	52.2	57.3	69.2	49.2	55.3	67.6
10	6.5	6.4	5.9	43.8	49.0	60.5	40.8	47.0	58.9
16	8.2	8.1	7.5	39.0	44.1	56.4	36.0	42.1	54.6
20	9.3	9.1	8.4	36.5	41.7	53.6	33.5	39.7	51.8
31.25	11.7	11.5	10.5	31.2	36.4	48.3	28.2	34.4	46.4
62.5	17.0	16.8	15.1	21.4	26.6	39.4	18.4	24.6	37.6
100	22.0	21.7	19.3	13.3	18.7	32.3	10.3	16.7	30.7
150	—	27.2	23.8	—	10.6	24.7	—	8.6	22.9
200	—	32.0	27.7	—	3.8	18.3	—	1.8	16.8
250	—	36.4	31.2	—	-2.1	13.1	—	-4.1	11.4
300	—	40.4	34.3	—	-7.3	7.6	—	-9.3	6.0
350	—	44.2	37.3	—	-12.0	3.3	—	-14.0	1.6
400	—	—	40.1	—	—	-0.4	—	—	-2.3

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450 — — 42.8 — — -5.0 — — -6.7

All swept frequency values above 350 MHz are for engineering purposes only.

LANmark-350 Parametric Data: Electrical (cont.)

FREQ MHz	ACRF (dB/100m)			PSACRF (dB/100m)			LCL/TCL	EL TCTL
	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	Product Guarantee	Product Guarantee
1	63.8	66.8	80.4	60.8	63.8	76.3	40.0	35.0
4	51.8	54.7	68.4	48.8	51.7	64.1	40.0	23.0

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10	43.8	46.8	60.5	40.8	43.8	56.2	40.0	15.0
16	39.7	42.7	56.7	36.7	39.7	52.2	38.0	10.9
20	37.8	40.8	54.8	34.8	37.8	50.3	37.0	9.0
31.25	33.9	36.9	51.0	30.9	33.9	46.5	35.1	5.1
62.5	27.9	30.8	45.2	24.9	27.8	40.6	32.0	—
100	23.8	26.8	41.1	20.8	23.8	36.9	30.0	—
150	—	23.3	37.2	—	20.3	32.7	28.2	—
200	—	20.7	34.6	—	17.7	30.3	27.0	—
250	—	18.8	32.8	—	15.8	28.1	26.0	—
300	—	17.2	31.1	—	14.2	26.0	25.2	—
350	—	15.9	29.4	—	12.9	25.0	24.6	—
400	—	—	28.0	—	—	23.8	24.0	—
450	—	—	26.6	—	—	22.1	23.5	—

All swept frequency values above 350 MHz are for engineering purposes 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	(0.58)	Pair-2	White/Orange	Orange
Insulated conductor dia.-in.(mm)	0.035	(1.04)	Pair-3	White/Green	Green
Cable diameter - in. (mm)	0.165	(5.69)	Pair-4	White/Brown	Brown
Nom. cable wt.-lb./kft. (kg/km)	21	(13.2)	Temperature Rating (degrees C) Installation 0 to +50 Operation -20 to +60		
Max. installation tension - lb. (N)	25	(110)			
Min. bend radius - in. (mm)	1	(25.4)			

LANmark-350 Plenum Technical Data - Parametric Measurements

Mutual Capacitance	5.6 nF/100 m max.
DC Resistance	9.38 Ohms/100 m max.
Skew	25 ns/100 m max.
Pair to Ground Unbalance	330 pF/100 m max.
Velocity of Propagation	73% nom.
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

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Selling delivery information

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