

## Contact

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## LANmark-350 Patch

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-B.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

#### Construction

Stranded tinned 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.

#### Standards

- North American: ANSI/TIA/EIA-568-B.2 Category 5e, UL 444 and C22.2 No.214-02
- International: ISO/IEC 11801-2nd Edition Category 5, EU Directive 2002/95/EC (RoHS)

#### Flame Rating

- Patch - UL 1685, CM, IEC 332-1
- UL Listed

#### Applications

Berk-Tek's LANmark-350 Premium Category 5e UTP cable is intended for high speed data applications up to 350 MHz including:

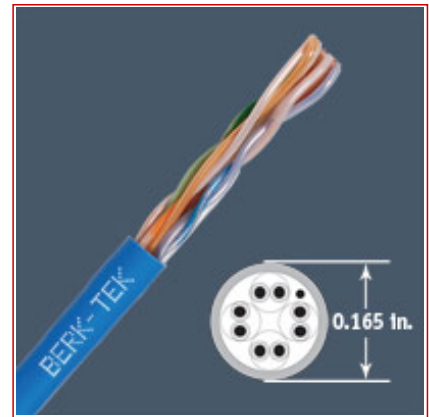
- IEEE 802.3 1000BASE-T 1 Gb/s
- ATM 155 Mb/s 155 Mb/s
- IEEE 802.3 100BASE-TX 100 Mb/s
- CDDI 100 Mb/s
- IEEE 802.3 10BASE-T 10 Mb/s

#### Features

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

#### 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

National TIA/EIA-568-B.2

## LANmark-350 Patch

### Characteristics

Construction characteristics	
Type of cable	UTP
Dimensional characteristics	
Length per reel	1000.0 ft
Number of pairs	4
Usage characteristics	
Field of application	Indoor
Category	Cat. 5e
Fire safety	CM

### Product List

☎=Make to order, 📦=Make to stock

Part Number	Description	Colour	Packaging
📦 10032637	LANmark-350 Patch	Yellow	Reel
📦 10032638	LANmark-350 Patch	Yellow	Box
📦 10032641	LANmark-350 Patch	Black	Reel
📦 10032642	LANmark-350 Patch	Black	Box
📦 10032645	LANmark-350 Patch	Red	Reel
📦 10032646	LANmark-350 Patch	Red	Box
📦 10032649	LANmark-350 Patch	Grey	Reel
📦 10032650	LANmark-350 Patch	Grey	Box
📦 10032659	LANmark-350 Patch	Violet	Reel
📦 10032660	LANmark-350 Patch	Violet	Box
📦 10032639	LANmark-350 Patch	Blue	Reel
📦 10032640	LANmark-350 Patch	Blue	Box
📦 10032643	LANmark-350 Patch	White	Reel
📦 10032644	LANmark-350 Patch	White	Box
📦 10032647	LANmark-350 Patch	Green	Reel
📦 10032648	LANmark-350 Patch	Green	Box
📦 10032658	LANmark-350 Patch	Orange	Reel
📦 10032621	LANmark-350 Patch	Pink	Reel

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### Technical Data - Physical

Technical Data - Physical			Color Code		
<b>Conductor</b>	24 AWG Stranded TC		<b>Pair-1</b>	White/Blue	Blue
<b>Conductor diameter—in. (mm)</b>	0.024	(0.61)	<b>Pair-2</b>	White/Orange	Orange
<b>Insulated Conductor Diameter- in. (mm)</b>	0.04	(1.02)	<b>Pair-3</b>	White/Green	Green
<b>Cable diameter—in. (mm)</b>	0.215	(5.5)	<b>Pair-4</b>	White/Brown	Brown
<b>Nominal cable weight—lb./kft. (kg/km)</b>	23	(34.5)	<b>Temperature Rating</b>		
<b>Max. installation tension—lb. (N)</b>	25	(110)	<b>Installation</b>	0°C to +50°C	
<b>Min. bend radius—in. (mm)</b>	1	(25.4)	<b>Operation</b>	-20°C to +75°C	

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### Technical Data - Parametric Measurements

<b>Mutual Capacitance</b>	4.4 nF/100 m nom.
<b>DC resistance</b>	9.09 Ohms/100 m max.
<b>Skew</b>	25 ns/100 m max.
<b>Pair to ground Unbalance</b>	330 pF/100 m max.
<b>Velocity of Propagation</b>	70% nom.
<b>Input Impedance</b>	100 ± 13% 0.772-100 MHz 100 ± [13+15log (F/100)] 100-350 MHz
<b>DC Resistance Unbalance of a Pair</b>	5% max.

### Technical Data - Electrical

FREQ MHz	SRL (dB)	RL (dB)	IL (dB/100m)	PS-NEXT (dB)	NEXT (dB)	ACR (dB@100m)	PS-ACR (dB@100m)	ELFEXT (dB)	PS-ELFEXT (dB)
	min.	min.	max.	min.	min.	min.	min.	min.	min.
1	25.5	20.0	2.4	68.3	70.3	67.9	65.9	66.8	63.8
4	25.5	23.3	4.8	59.3	61.3	56.5	54.5	54.7	41.7
10	25.5	25.5	7.7	53.3	55.3	47.7	45.7	46.8	43.8
20	25.5	25.0	11.0	48.8	50.8	39.8	37.8	40.7	37.7
31.25	24.4	24.4	13.9	45.9	47.9	34	32.0	36.9	33.9
62.5	22.7	22.7	20.2	41.4	43.4	23.2	21.2	30.8	27.8
100	21.5	21.1	26.1	38.3	40.3	14.2	12.2	26.8	23.8
200	19.8	19.8	38.5	33.8	35.8	—	—	20.7	17.7
300	18.8	18.8	48.6	31.2	33.2	—	—	17.2	15.8
350	18.4	18.4	53.3	30.2	32.2	—	—	15.9	12.9
400	18.1	18.1	57.6	29.3	31.3	—	—	14.7	11.7
450	17.8	17.8	61.8	28.5	30.5	—	—	13.7	10.7

IMPORTANT: Berk-Tek performance guarantees are based on swept-frequency testing and apply to all frequencies for the entire specified frequency range and are not limited to the table of data shown which are presented to demonstrate our guarantees at "representative" frequencies. Values above 350 MHz are for engineering information. Limited combustible version also available. Other jacket colors available.

### Selling delivery 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.