

# Berk-Tek LANmark-2000 Premium Category 6 Patch

The LANmark-2000 cable series is comprised of ANSI/TIA/EIA Category 6 compliant cables that are specified and tested to 500 MHz. LANmark-2000 is a true multimedia cable and is specifically designed to handle voice, video and data simultaneously. The useable bandwidth allows for the convergence of analog video, voice and data onto one cable simultaneously. This convergence of technologies simplifies even the most dynamic network. LANmark-2000 is Berk-Tek's highest performing Enhanced Category 6 cable available. Every key electrical property for LANmark-2000 has been improved when measured against the ANSI/TIA-568.2-D standard. This improvement in electrical performance ensures that transmitted signals will be stronger and less susceptible to outside interference, resulting in more robust network performance.

## DESCRIPTION

### Construction

24 AWG stranded tinned stranded 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.

### Standards

- North American: ANSI/TIA-568.2-D, UL 444 & C22.2 No.214-02
- International: ISO/IEC 11801-1995 Category 6, EU Directive 2011/65/EC (RoHS)

### Flame Rating

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

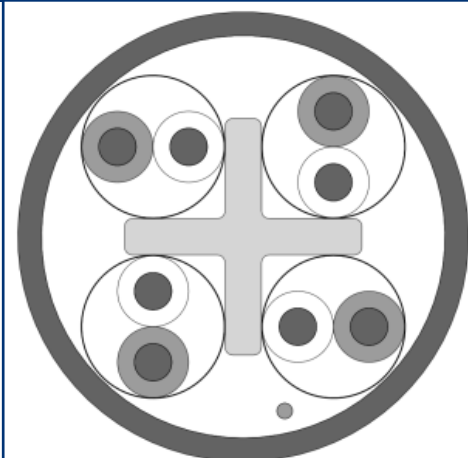
### Features

- Full duplex operation capable over four cable pairs
- Increased usable bandwidth vs. the category 6 standard
- Documented balance characteristics (LCL/TCL, EL TCTL)
- ETL verified to ANSI/TIA-568.2-D standard

### Benefits

- Provides additional performance margin to reliably support Gigabit Ethernet in high-noise environments
- Provides bandwidth required for multimedia, broadband video analog video and other future applications
- Balance characteristics improve overall cable performance and reduce cable emissions which results in reduced transmission errors

## Country of Origin: USA



## STANDARDS

**International** ISO/IEC 11801

**National** ANSI/TIA 568.2-D;  
UL 444

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## CHARACTERISTICS

### Construction characteristics

Type of cable UTP

### Dimensional characteristics

Length per reel 1000.0 ft

Number of pairs 4

### Usage characteristics

Packaging Reel

Field of application Indoor

Category Cat. 6

Fire safety CM

## PRODUCT LIST

Part Number	Description	Colour
☎ 10033598	LANmark-2000 Premium Category 6 Patch	Grey
☎ 10033822	LANmark-2000 Premium Category 6 Patch	Blue
☎ 10033825	LANmark-2000 Premium Category 6 Patch	Green
☎ 10033821	LANmark-2000 Premium Category 6 Patch	White
☎ 10033823	LANmark-2000 Premium Category 6 Patch	Yellow
☎ 10164378	LANmark-2000 Premium Category 6 Patch	Red

☎ = Make to order, 📦 = In stock

## TECHNICAL DATA - PHYSICAL

LANmark-2000 Patch Physical Characteristics, including conductor size, OD, nominal weight, etc.

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	(0.64)	<b>Pair-2</b>	White/Orange	Orange
<b>insulated conductor diameter</b>	0.040	(1.02)	<b>Pair-3</b>	White/Green	Green
<b>Cable diameter—in. (mm)</b>	0.240	(6.27)	<b>Pair-4</b>	White/Brown	Brown
<b>Nominal cable weight—lb./kft. (kg/km)</b>	28	(42)	<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>	1.00	(25.4)	<b>Operation</b>	-20°C to +75°C	

## TECHNICAL DATA - PARAMETRIC MEASUREMENTS

<b>Mutual Capacitance</b>	5.3 nF/100m nom.
<b>DC resistance max.</b>	9.09 Ohms/100 m max.
<b>Skew</b>	45 ns/100 m max
<b>Pair to ground Unbalance</b>	330 pF/100 m max. at 1 kHz
<b>Velocity of Propagation</b>	67% nom.
<b>DC Resistance Unbalance</b>	5% max.

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### NETWORK SOLUTIONS HEADQUARTERS

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# Berk-Tek LANmark-2000 Premium Category 6 Patch



## TECHNICAL DATA - ELECTRICAL

LANmark-2000 Patch Electrical Characteristics, including SRL, RL, IL, PS-NEXT, ACR, PS-ACR, ACRF, PS-ACRF, LCL/TCL

Freq (MHz)	SRL (dB)	RL (dB)	IL (dB)	PS-NEXT (dB)	NEXT (dB)	ACR (dB)	PS-ACR (dB/100m)	ACRF (dB)	PS-ACRF (dB)	LCL/TCL (dB)	EL TCTL (dB)
	min	min	max	min.	min.	min	min.	min.	min.	min.	min.
1	26.0	20.0	2.4	78.3	80.3	77.9	75.9	72.8	72.8	50.0	35.0
4	26.0	23.6	4.5	69.3	71.3	66.8	64.8	60.7	60.7	44.0	23.0
10	26.0	26.0	7.1	63.3	65.3	58.2	56.2	52.8	52.8	40.0	15.0
16	26.0	26.0	9.0	60.3	62.3	53.3	51.2	48.7	48.7	38.0	10.9
20	26.0	26.0	10.1	58.8	60.8	50.7	48.7	46.7	46.7	37.0	9.0
31.25	25.1	25.1	12.7	55.9	57.9	45.2	43.2	42.9	42.9	35.1	—
62.5	23.5	23.5	18.3	51.4	53.4	35.1	33.0	36.8	36.8	32.0	—
100	22.5	22.5	23.6	48.3	50.3	26.7	24.7	32.8	32.8	30.0	—
250	20.5	20.5	39.2	42.3	44.3	5.1	3.2	24.8	24.8	26.0	—
350	19.8	19.8	47.4	40.2	42.2	—	—	21.9	21.9	—	—
400	19.0	19.5	51.2	39.3	41.3	—	—	20.7	20.7	—	—
500	18.6	19.0	58.3	37.8	39.8	—	—	18.8*	18.8*	—	—

\* Values provided for reference only

## SUPPORTED CATEGORY 6 APPLICATIONS

STANDARD	APPLICATION	SPEED
IEEE 802.3	1000BASE-T	1 Gb/s
TIA/EIA-854	1000BASE-TX	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
IEEE 802.3 af	PoE	1 Gb/s
IEEE 802.3 at	PoE+, Type 1 & 2	1 Gb/s

## SELLING INFORMATION

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