

LANmark-2000 Enhanced 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 TIA/EIA 568-B.2-1 Category 6 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/EIA-568-B.2-1 Category 6, UL 444 & C22.2 No.214-02
- International: ISO/IEC 11801-1995 Category 6, EU Directive 2002/95/EC (RoHS)

Flame Rating

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

Applications

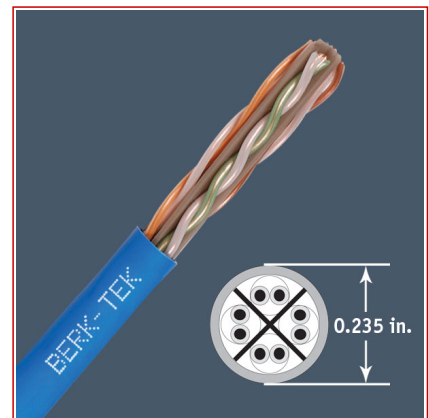
Berk-Tek's LANmark-2000 UTP cable is intended for future and high speed data and multimedia applications including:

- IEEE 802.3 1000BASE-T 1 Gb/s
- TIA/EIA-854 1000BASE-TX 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 10Mb/s
- IP Video
- Broadband Video

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/EIA-568-B.2-1 Category 6 standard

Benefits



Standards

National TIA/EIA-568-B.2

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- 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

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

Technical Data - Physical

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

Technical Data - Physical			Color Code		
Conductor	24 AWG stranded TC		Pair-1	White/Blue	Blue
Conductor diameter—in. (mm)	0.024	(0.64)	Pair-2	White/Orange	Orange
insulated conductor diameter	0.04	(1.02)	Pair-3	White/Green	Green
Cable diameter—in. (mm)	0.247	(6.27)	Pair-4	White/Brown	Brown
Nominal cable weight—lb./kft. (kg/km)	28	(42)	Temperature Rating		
Max. installation tension—lb. (N)	25	(110)	Installation	0°C to +50°C	
Min. bend radius—in. (mm)	1	(25.4)	Operation	-20°C to +75°C	

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Technical Data - Electrical

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

Freq (MHz)	SRL (dB)	RL (dB)	IL (dB)	PS-NEXT (dB)	NEXT (dB)	ACR (dB)	PS-ACR (dB/100m)	ELFEXT (dB)	PS-ELFEXT (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	3.1	24.8	24.8	26.0	—
350	19.8	19.8	47.4	40.2	42.2	—	—	21.9	21.9	—	—
400	19.0	19.0	51.2	39.3	41.3	—	—	20.7	20.7	—	—
500	18.6	18.6	58.3	37.8	39.8	—	—	18.8	18.8	—	—

Product List

☎ = Make to order, 📦 = Make to stock

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

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Selling delivery information

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