BERK-TEK LANMARK-2000 Premium Cat 6 Plenum Rated Cable

APPLICATION

BERK-TEK LANMARK-2000 is Leviton's highest-performing Premium Cat 6 cable. Every key electrical property has been improved when measured against the ANSI/TIA-568.2 Cat 6 standard for transmitted signals, making them stronger and less susceptible to outside interference. BERK-TEK LANMARK-2000 is a true multimedia cable and is specifically designed to handle voice, video, and data simultaneously. It is also ideal for Power over Ethernet (PoE) applications where a larger gauge for greater current carrying capacity is needed.



COUNTRY OF ORIGIN

USA

WARRANTY INFORMATION

For Leviton product warranties, go to Leviton.com/ns/warranty

FEATURES & BENEFITS

- Provides 10 dB of margin above standard for crosstalk parameters and additional margins for other parameters 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, resulting in reduced transmission errors
- Reduced diameter allows for more efficient space utilization
- Guaranteed to 500 MHz (250 MHz greater than the standards)
- Improved ACR means stronger signal reaches the receiver resulting in cleaner data and video transmission
- May be used in bundle sizes up to 480 cables supporting 100 W PoE
- Unique ID in print legend allows cable to be traced without additional equipment

STANDARDS & REGULATIONS

- ANSI/TIA-568.2 Cat 6
- ISO/IEC 11801
- UL 444 Plenum Rated
- IEEE 802.3 PoE Type 1, 2, 3, 4 (100 watts max)
- Cisco UPOE, UPOE+ (90 watts max)
- Power over HDBaseT™ PoH (95 watts max)
- Plenum; NFPA 262, CMP
- UL Listed as CMP-LP (0.5A)

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I25 SS2017-US ENv6
Revised September 2025

PRODUCT SPECIFICATIONS
BERK-TEK™LANMARK™-2000 Premium Cat 6 Plenum Rated Cable

LEVITON® Network Solutions

TECHNICAL SPECIFICATIONS

Electrical Properties (20 °C ± 5 °C) [68 °F ± 9 °F]	
DC resistance	Max. 9.38 Ω/100 m
DC resistance unbalance	Max. 5 %
Mutual capacitance	Nom. 4.4 nF/100 m at 1 kHz
Capacitance unbalance (pair-to-ground)	Max. 330 pF/100 m at 1 kHz
Delay skew	45 ns/100 m max.
Nominal velocity of propagation	72 %

HIGH SPEED DATA AND POWER APPLICATIONS

IEEE 802.3	2.5/5GBASE-T (2.5/5 Gb/s), 1000BASE-T (1 Gb/s), 100BASE-TX (100 Mb/s), 10BASE-T (10 Mb/s)
IEEE 802.3	PoE Types 1, 2, 3, and 4

CHARACTERISTICS

Field of Application	Indoor
Category	Cat 6
Type of cable	UTP
Temp. (Storage):	-20 °C to +60 °C (-4 °F to 140 °F)
Temp. (Installation):	+10 °C to +50 °C (50 °F to 122 °F)
Temp. (Operating):	-20 °C to +60 °C (-4 °F to 140 °F)
Listed cable temp.	+90 °C (194 °F)

COLOR CODE

Pair 1	Blue	White
Pair 2	Orange	White
Pair 3	Green	White
Pair 4	Brown	White

TECHNICAL DATA - PHYSICAL

Conductor	23 AWG bare copper	
Max conductor diameter - in. (mm)	0.022	(0.56)
Max insulated conductor diameter - in. (mm)	0.037	(0.94)
Nom. cable diameter - in. (mm)	0.220	(5.59)
Nom. cable weight - lb./kft (kg/km)	28	(42)
Max. installation tension - lb. (N)	25	(110)
Min. bend radius - in. (mm)	1.00	(25.4)

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GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

Freq.	RL (dB)		NEXT (dB)		PSNEXT (dB)		ACRN (dB)		PSACRN (dB)	
MHz	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee
1	20.0	20.0	74.3	84.3	72.3	82.3	72.3	82.3	70.3	80.3
4	23.0	23.6	65.3	75.3	63.3	73.3	61.5	71.6	59.5	69.6
10	25.0	26.0	59.3	69.3	57.3	67.3	53.3	63.5	51.3	61.5
16	25.0	26.0	56.2	66.2	54.2	64.2	48.7	58.9	46.7	56.9
20	25.0	26.0	54.8	64.8	52.8	62.8	46.3	56.5	44.3	54.5
31.25	23.6	25.0	51.9	61.9	49.9	59.9	41.2	51.5	39.2	49.5
62.5	21.5	23.5	47.4	57.4	45.4	55.4	32.0	42.4	30.0	40.4
100	20.1	22.5	44.3	54.3	42.3	52.3	24.5	35.0	22.5	33.0
250	17.3	20.5	38.3	48.3	36.3	46.3	5.5	16.4	3.5	14.4
350	—	19.8	—	46.1	—	44.1	—	7.4	—	5.4
400	—	19.5	—	45.3	—	43.3	—	3.5	—	1.5
500	—	19.0	—	43.8	—	41.8	—	-3.8	—	-5.8
600**	—	18.6	—	42.6	—	40.6	—	-10.4	—	-12.4

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

Freq.	IL (dB)		ACRF (dB)		PSACRF (dB)		LCL/TCL† (dB)	ELTCTL (dB)
MHz	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	Product Guarantee	Product Guarantee
1	2.0	2.0	67.8	76.8	64.8	73.8	40.0	35.0
4	3.8	3.7	55.8	64.8	52.8	61.8	40.0	23.0
10	6.0	5.8	47.8	56.8	44.8	53.8	40.0	15.0
16	7.6	7.4	43.7	52.7	40.7	49.7	38.0	10.9
20	8.5	8.2	41.8	50.8	38.8	47.8	37.0	9.0
31.25	10.7	10.4	37.9	46.9	34.9	43.9	35.1	—
62.5	15.4	15.0	31.9	40.9	28.9	37.9	32.0	—
100	19.8	19.3	27.8	36.8	24.8	33.8	30.0	—
250	32.8	32.0	19.8	28.8	16.8	25.8	26.0	—
350	—	38.7	—	25.9	—	22.9	24.6	—
400	—	41.8	—	24.8	—	21.8	24.0	—
500	—	47.6	—	22.8	—	19.8	23.0	—
600**	—	53.0	—	21.2	—	18.2	22.2	—

PSACR is guaranteed for LANMARK-2000 to 350 MHz. ACR and PSACR for the TIA Spec are provided as calculation reference only.
**LANMARK-2000 is guarantees to 500 MHz; values shown above 500 MHz is for information only.
† LANMARK-2000 guarantees LCL/TCL up to 250 MHz; values shown above 250 MHz is for information only.

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Network Solutions

PART NUMBER				
Description	**Color**	**Packaging**	**Field Application**	**Part No.**
LANMARK-2000 Premium Category 6 Plenum	White	Reel	Indoor	10167311
LANMARK-2000 Premium Category 6 Plenum	Blue	Reel	Indoor	10163222
LANMARK-2000 Premium Category 6 Plenum	Dark grey	Reel	Indoor	11094750
LANMARK-2000 Premium Category 6 Plenum	Yellow	Reel	Indoor	10167308
LANMARK-2000 Premium Category 6 Plenum	Green	Reel	Indoor	10170668
LANMARK-2000 Premium Category 6 Plenum	Red	Reel	Indoor	10170684
LANMARK-2000 Premium Category 6 Plenum	Black	Reel	Indoor	10182494
LANMARK-2000 Premium Category 6 Plenum	Violet	Reel	Indoor	10170672
LANMARK-2000 Premium Category 6 Plenum	Orange	Reel	Indoor	10170670
LANMARK-2000 Premium Category 6 Plenum	White	Reel in a box	Indoor	10167312
LANMARK-2000 Premium Category 6 Plenum	Blue	Reel in a box	Indoor	10163780
LANMARK-2000 Premium Category 6 Plenum	Dark grey	Reel in a box	Indoor	11098632
LANMARK-2000 Premium Category 6 Plenum	Yellow	Reel in a box	Indoor	10167309
LANMARK-2000 Premium Category 6 Plenum	Green	Reel in a box	Indoor	10170669
LANMARK-2000 Premium Category 6 Plenum	Pink	Reel in a box	Indoor	10178756
LANMARK-2000 Premium Category 6 Plenum	Red	Reel in a box	Indoor	10170685
LANMARK-2000 Premium Category 6 Plenum	Black	Reel in a box	Indoor	11051916
LANMARK-2000 Premium Category 6 Plenum	Violet	Reel in a box	Indoor	10170673
LANMARK-2000 Premium Category 6 Plenum	Orange	Reel in a box	Indoor	10170671
LANMARK-2000 Premium Category 6 Plenum	Brown	Reel in a box	Indoor	11078228

*Made to order

PRINT LEGEND:
LANMARK-2000 23 AWG CMP 90C C(UL)US CMP-LP (0.5A) ETL VERIFIED TIA-568.2 CAT 6 [DATE] [COUNTER] [UID]

For further support information, visit Leviton.com/ns/support

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