

PRODUCT SPECIFICATIONS

BERK-TEK™ LANMARK™-2000 Premium Cat 6 Riser Rated Cable

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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 cable is a true multi-media cable and is specifically designed to handle voice, video, and data simultaneously.



COUNTRY OF ORIGIN

USA

WARRANTY INFORMATION

For Leviton product warranties, go to [Leviton.com/ns/warranty](https://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 288 cables supporting 100 W PoE
- Unique ID in print legend allows cable to be traced without additional equipment

STANDARDS & REGULATIONS

- ANSI/TIA-568.2
- ISO/IEC 11801
- IEEE 802.3 PoE Types 1, 2, 3, 4 (100 watt max)
- Cisco UPOE, UPOE+ (90 watts max)
- Power over HDBaseT™ PoH (95 watts max)
- RoHS Compliant
- Non-Plenum; UL 1666, CMR
- UL Listed as CMR - Riser Rated

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TECHNICAL SPECIFICATIONS

Electrical properties (20 °C ± 5 °C)

DC resistance	Max. 9.38 Ω/100 m
DC resistance unbalance	Max. 5%
Mutual capacitance	Nom. 4.9 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	69%

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

Dimensional Characteristics

Length per reel	1000 ft (305 m)
Usage Characteristics	
Field of Application	Indoor
Category	Cat 6
Type of cable	UTP
Temperature (Installation):	+0 °C to +50 °C (+32 °F to +122 °F)
Temperature (Operating):	-20 °C to +60 °C (-4 °F to +140 °F)
Temperature (Storage):	-20 °C to +60 °C (-4 °F to +140 °F)
UL temperature rating:	+75 °C (+167 °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)	0.039	(0.99)
Nom. cable diameter - in. (mm)	0.235	(5.97)
Nom. cable weight - lb./kft (kg/km)	27	(40)
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)	
	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee
MHz										
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	—	-4.6

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

Freq.	IL (dB)		ACRF (dB)		PSACRF (dB)		LCL/TCL† (dB)	ELTCTL (dB)
	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	Product Guarantee	Product Guarantee
MHz								
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 guaranteed 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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PART NUMBERS

Description	Color	Packaging	Part No.
LANMARK-2000 Premium Category 6 Riser	White	Reel	10167480
LANMARK-2000 Premium Category 6 Riser	Blue	Reel	10167476
LANMARK-2000 Premium Category 6 Riser	Dark grey	Reel	11098648
LANMARK-2000 Premium Category 6 Riser	Yellow	Reel	10167482
LANMARK-2000 Premium Category 6 Riser	Green	Reel	10170687
LANMARK-2000 Premium Category 6 Riser	Red	Reel	10170693
LANMARK-2000 Premium Category 6 Riser	Black	Reel	10189739
LANMARK-2000 Premium Category 6 Riser	Violet	Reel	10170691
LANMARK-2000 Premium Category 6 Riser	Orange	Reel	10170689
LANMARK-2000 Premium Category 6 Riser	White	Reel in a box	10167481
LANMARK-2000 Premium Category 6 Riser	Blue	Reel in a box	10167477
LANMARK-2000 Premium Category 6 Riser	Dark grey	Reel in a box	11098633
LANMARK-2000 Premium Category 6 Riser	Yellow	Reel in a box	10167483
LANMARK-2000 Premium Category 6 Riser	Green	Reel in a box	10170688
LANMARK-2000 Premium Category 6 Riser	Red	Reel in a box	10170694
LANMARK-2000 Premium Category 6 Riser	Pink	Reel in a box	11000003
LANMARK-2000 Premium Category 6 Riser	Violet	Reel in a box	10170692

PRINT LEGEND:

BERK-TEK LANMARK-2000 23 AWG CMR 75C C(UL)US ETL VERIFIED TIA-568.2 CAT 6 [DATE] [COUNTER] [UID]

For further support information, visit [Leviton.com/ns/support](https://leviton.com/ns/support)

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