

PRODUCT SPECIFICATIONS

LANMARK-2000 Premium Cat 6 Riser Rated Cable

LANMARK™-2000 Premium Cat 6 Riser Rated Cable

APPLICATION

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-D Cat 6 standard for transmitted signals, making them stronger and less susceptible to outside interference. LANMARK-2000 is a true multi-media cable and is specifically designed to handle voice, video, and data simultaneously.



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, resulting in reduced transmission errors
- Reduced diameter allows for more efficient space utilization
- Characterized to 600 MHz, 350 MHz greater than the standard
- Improved ACR allows improved signal to reach the receiver for cleaner data and video transmission
- Supports up to 288 cable bundles for 100 W PoE

FEATURES

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

CONSTRUCTION

23 AWG bare 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 & REGULATIONS

- ANSI/TIA-568.2-D Cat 6
- 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

FIRE RATING

- Non-Plenum; UL 1666, CMR
- UL Listed as CMR - Riser Rated

WARRANTY INFORMATION

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

COUNTRY OF ORIGIN

USA

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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
Nominal velocity of propagation	69%
Delay skew	45 ns/100 m max.

CHARACTERISTICS

Dimensional Characteristics

Length per reel	1000 ft (305 m)
Number of pairs	4

Usage Characteristics

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)

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 1,2,3,4 (100 watts max)

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	(40.2)
Max. installation tension - lb. (N)	25	(110)
Min. bend radius - in. (mm)	1.00	(25.4)

COLOR CODE

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

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GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

Freq. MHz	RL (dB)		NEXT (dB)		PSNEXT (dB)		ACRF (dB/100 m)	
	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	67.8	76.8
4	23.0	23.6	65.3	75.3	63.3	73.3	55.8	64.8
10	25.0	26.0	59.3	69.3	57.3	67.3	47.8	56.8
16	25.0	26.0	56.2	66.2	54.2	64.2	43.7	52.7
20	25.0	26.0	54.8	64.8	52.8	62.8	41.8	50.8
31.25	23.6	25.0	51.9	61.9	49.9	59.9	37.9	46.9
62.5	21.5	23.5	47.4	57.4	45.4	55.4	31.9	40.9
100	20.1	22.5	44.3	54.3	42.3	52.3	27.8	36.8
250	17.3	20.5	38.3	48.3	36.3	46.3	19.8	28.8
350	—	19.8	—	46.1	—	44.1	—	25.9
400	—	19.5	—	45.3	—	43.3	—	24.8
500	—	19.0	—	43.8	—	41.8	—	22.8
600**	—	18.6	—	42.6	—	40.6	—	21.2
700**	—	18.3	—	41.6	—	39.6	—	19.9

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

Freq. MHz	IL (dB/100 m)		ACR* (dB/100 m)		PSACR* (dB/100 m)		PSACRF (dB/100 m)		LCLTCL (dB)	ELTCTL (dB)
	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	Product Guarantee	Product Guarantee
1	2.0	2.0	72.3	82.3	70.3	80.3	64.8	73.8	40.0	35.0
4	3.8	3.7	61.5	71.6	59.5	69.6	52.8	61.8	40.0	23.0
10	6.0	5.8	53.3	63.5	51.3	61.5	44.8	53.8	40.0	15.0
16	7.6	7.4	48.7	58.9	46.7	56.9	40.7	49.7	38.0	10.9
20	8.5	8.2	46.3	56.5	44.3	54.5	38.8	47.8	37.0	9.0
31.25	10.7	10.4	41.2	51.5	39.2	49.5	34.9	43.9	35.1	—
62.5	15.4	15.0	32.0	42.4	30.0	40.4	28.9	37.9	32.0	—
100	19.8	19.3	24.5	35.0	22.5	33.0	24.8	33.8	30.0	—
250	32.8	32.0	5.5	16.4	3.5	14.4	16.8	25.8	26.0	—
350	—	38.7	—	7.4	—	5.4	—	22.9	24.6	—
400	—	41.8	—	3.5	—	1.5	—	21.8	24.0	—
500	—	47.6	—	-3.8	—	-5.8	—	19.8	23.0	—
600**	—	53.0	—	-10.4	—	-4.6	—	18.2	22.2	—
700**	—	58.1	—	-16.5	—	-18.5	—	16.9	21.5	—

*LANMARK-2000 does not guarantee ACR; values are provided are for information only.

PSACR is only guaranteed for LANMARK-2000 up to 350 MHz. Any values above that are provided for information only.

**LANMARK-2000 CMR is guaranteed to 500 MHz; values shown above 500 MHz are for information only.

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PART NUMBERS

Description	Color	Packaging	Part No.
LANMARK-2000 Premium Category 6 Riser	Dark grey	Reel	11098648
LANMARK-2000 Premium Category 6 Riser	Dark grey	Reel in a box	11098633
LANMARK-2000 Premium Category 6 Riser	White	Reel	10167480
LANMARK-2000 Premium Category 6 Riser	White	Reel in a box	10167481
LANMARK-2000 Premium Category 6 Riser	Green	Reel	10170687
LANMARK-2000 Premium Category 6 Riser	Green	Reel in a box	10170688
LANMARK-2000 Premium Category 6 Riser	Orange	Reel	10170689
LANMARK-2000 Premium Category 6 Riser	Orange	Reel in a box	10170690
LANMARK-2000 Premium Category 6 Riser	Yellow	Reel	10167482
LANMARK-2000 Premium Category 6 Riser	Yellow	Reel in a box	10167483
LANMARK-2000 Premium Category 6 Riser	Blue	Reel	10167476
LANMARK-2000 Premium Category 6 Riser	Blue	Reel in a box	10167477
LANMARK-2000 Premium Category 6 Riser	Violet	Reel	10170691
LANMARK-2000 Premium Category 6 Riser	Violet	Reel in a box	10170692
LANMARK-2000 Premium Category 6 Riser	Red	Reel	10170693
LANMARK-2000 Premium Category 6 Riser	Red	Reel in a box	10170694
LANMARK-2000 Premium Category 6 Riser	Black	Reel	10189739
LANMARK-2000 Premium Category 6 Riser	Pink	Reel in a box	11000003

PRINT LEGEND:

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

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

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