

## PRODUCT SPECIFICATIONS

### LANmark™-1000 Enhanced Cat 6 Plenum Rated Cable

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## APPLICATION

LANmark-1000 offers best-in-class electrical performance. Engineers designed LANmark-1000 to ensure that all crosstalk parameters have 5 dB of headroom over the Cat 6 standard. As a result, the Power Sum Attenuation to Crosstalk Ratio (PSACR) is nearly three times better than the standard (at 250 MHz), allowing for much greater signal strength and less vulnerability to noise interference.



## BENEFITS

- Optimal support for Gigabit Ethernet with headroom
- Power sum characterization gives highest performance using existing applications
- Addition of balance requirements improves overall cable performance and reduces cable emissions which results in reduced transmission errors
- Characterized to 350 MHz, 100 MHz greater than the standard
- Able to bundle 312 cables to support 100 W PoE
- Available in smartPAK™ 1500 ft boxes which reduce cardboard waste up to 15% for a more sustainable future

## FEATURES

- Full Power Sum Performance
- Documented balance characteristics (TCL, ELTCTL)
- 23 AWG copper conductors
- 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
- Performance to these beyond standard specifications are independently verified by ETL as part of the LM Verified Performance program
- Made with Leviton's advanced FLX-1™ technology for maximum flexibility, tighter bend radius and smoother pulls

## STANDARDS & REGULATIONS

- ANSI/TIA 568.2-D
- ISO/IEC 11801
- IEEE 802.3bt PoE Type 1 (15.4 watts, formerly 802.3af) Type 2 (30 watts, formerly 802.3at), Type 3 (60 watts), Type 4 (90 watts)
- Cisco UPOE (60 watts), UPOE+ (90 watts), Power over HDBaseT™ PoH (95 watts)
- UL 444
- RoHS Compliant

## FIRE RATING

- Plenum - NFPA 262
- CMP - Plenum Rated
- ETL Listed

## WARRANTY INFORMATION

For Leviton product warranties, go to [leviton.com/ns/warranty](http://leviton.com/ns/warranty)

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**TECHNICAL SPECIFICATIONS**

**Mechanical Properties**

Min. bending radius	1.0 inches (25.4 mm)
Max. installation tension	25 lb. (110 N)
Nominal cable weight	26 lbs/kft (38.70 kg/km)

**Usage Characteristics**

Field of application	Indoor
Category	Cat. 6
Recommended installation temp. range	0 °C .. 50 °C
Recommended operating temp. range	-20 °C .. 60 °C
Listed jacket temp.	75 °C

**Electrical Properties (-20 °C ± 5 °C)**

DC resistance	Max. 9.38 Ω/100 m max.
DC resistance unbalance	Max. 5% at 20 °C
Mutual capacitance	Nom. 5.1 nf/100 m at 1 kHz
Pair-to-ground unbalance	330 pf/100 m max.
Nominal velocity of propagation	68%
Delay skew	45 ns/100 m

**CHARACTERISTICS**

**Physical Properties**

Conductor	Bare copper wire	23 AWG
Insulation	Thermoplastic	Ø 0.040 inches (1.016 mm)
Twisting	4 twisted pairs, 2 single conductors paired Twisted pair color code: 1: White/Blue                      2: White/Orange 3: White/Green                     4: White/Brown	
Number of pairs	4 pairs	
Type of cable	UTP	
Nominal OD	0.225 inches (5.72 mm)	

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GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS										
Freq. MHz	RL (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB/100 m) <sup>†</sup>		PSACR (dB/100 m) <sup>†</sup>	
	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	79.3	72.3	77.3	72.3	77.3	70.3	75.3
4	23.0	23.6	65.3	70.3	63.3	68.3	61.5	66.5	59.5	64.5
10	25.0	26.0	59.3	64.3	57.3	62.3	53.3	58.4	51.3	56.4
16	25.0	26.0	56.2	61.2	54.2	59.2	48.7	53.7	46.7	51.7
20	25.0	26.0	54.8	59.8	52.8	57.8	46.3	51.4	44.3	49.4
31.25	23.6	25.0	51.9	56.9	49.9	54.9	41.2	46.3	39.2	44.3
62.5	21.5	23.5	47.4	52.4	45.4	50.4	32.0	37.1	30.0	35.1
100	20.1	22.5	44.3	49.3	42.3	47.3	24.5	29.6	22.5	27.6
150	18.9	21.6	41.7	46.7	39.7	44.7	16.9	22.1	14.9	20.1
200	18.0	21.0	39.8	44.8	37.8	42.8	10.8	16.0	8.8	14.0
250	17.3	20.5	38.3	43.3	36.3	41.3	5.5	10.7	3.5	8.7
300	—	20.1	—	42.1	—	40.1	—	6.0	—	4.0
350	—	19.8	—	41.1	—	39.1	—	1.6	—	—
400*	—	19.5	—	40.3	—	38.3	—	—	—	—
450*	—	19.2	—	39.5	—	37.5	—	—	—	—
500*	—	19.0	—	38.8	—	36.8	—	—	—	—

\*LANmark-1000 is guaranteed between 1 MHz and 350 MHz; any values above 350 MHz should be marked as reference only and not a part of the product guarantee.

<sup>†</sup> PSACR is guaranteed for LANmark-1000 to 250 MHz. ACR and PSACR for the TIA Spec are provided as calculation reference only.

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED								
Freq. MHz	IL (dB/100 m)		ACRF (dB/100 m)		PSACRF (dB/100 m)		LCL/TCL (dB)	EL TCTL (dB)
	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	Product Guarantee	Product Guarantee
1	2.0	2.0	67.8	72.8	64.8	69.8	40.0	35.0
4	3.8	3.8	55.8	60.8	52.8	57.8	40.0	23.0
10	6.0	5.9	47.8	52.8	44.8	49.8	40.0	15.0
16	7.6	7.5	43.7	48.7	40.7	45.7	38.0	10.9
20	8.5	8.4	41.8	46.8	38.8	43.8	37.0	9.0
31.25	10.7	10.6	37.9	42.9	34.9	39.9	35.1	—
62.5	15.4	15.3	31.9	36.9	28.9	33.9	32.0	—
100	19.8	19.7	27.8	32.8	24.8	29.8	30.0	—
150	24.7	24.5	24.3	29.3	21.3	26.3	28.2	—
200	29.0	28.8	21.8	26.8	18.8	23.8	27.0	—
250	32.8	32.6	19.8	24.8	16.8	21.8	26.0	—
300	—	36.2	—	23.3	—	20.3	25.2	—
350	—	39.5	—	21.9	—	18.9	24.6	—
400*	—	42.7	—	20.8	—	17.8	24.0	—
450*	—	45.7	—	19.7	—	16.7	23.5	—
500*	—	48.6	—	18.8	—	15.8	23.0	—

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PART NUMBERS				
Description	Color	Packaging	Field Application	Part No.
LANmark-1000 Plenum	Dark gray	Box	Indoor	11091087
LANmark-1000 Plenum	Yellow	Reel	Indoor	10032089
LANmark-1000 Plenum	Yellow	Box	Indoor	10032090
LANmark-1000 Plenum	White	Reel	Indoor	10032091
LANmark-1000 Plenum	White	Box	Indoor	10032092
LANmark-1000 Plenum	Blue	Reel	Indoor	10032093
LANmark-1000 Plenum	Blue	Box	Indoor	10032094
LANmark-1000 Plenum	Green	Reel	Indoor	10032096
LANmark-1000 Plenum	Green	Box	Indoor	10032097
LANmark-1000 Plenum*	Violet	Box	Indoor	10033809
LANmark-1000 Plenum*	Pink	Box	Indoor	10033811
LANmark-1000 Plenum*	Red	Box	Indoor	10033996
LANmark-1000 Plenum*	Orange	Box	Indoor	10033997
LANmark-1000 Plenum*	Black	Box	Indoor	10035304
LANmark-1000 Plenum*	Brown	Box	Indoor	10043530
LANmark-1000 Plenum	Yellow	Reel in a box	Indoor	10065427
LANmark-1000 Plenum	Blue	Reel in a box	Indoor	10065423
LANmark-1000 Plenum	White	Reel in a box	Indoor	10065424
LANmark-1000 Plenum	Dark gray	Reel in a box	Indoor	10065425
LANmark-1000 Plenum	Green	Reel in a box	Indoor	10065428
LANmark-1000 Plenum	Dark gray	Reel	Indoor	11098533
LANmark-1000 Plenum 1500 ft. smartPAK	Blue	Box	Indoor	11074694
LANmark-1000 Plenum 1500 ft. smartPAK	White	Box	Indoor	11074738
LANmark-1000 Plenum 1500 ft. smartPAK	Dark gray	Box	Indoor	11074739
LANmark-1000 Plenum 1500 ft. smartPAK	Yellow	Box	Indoor	11074894
LANmark-1000 Plenum 1500 ft. smartPAK	Green	Box	Indoor	11074895

\*Make to order

**Print Legend:**

BERK-TEK LANMARK-1000 23 AWG CMP 75C C(ETL)US ETL VERIFIED TIA-568.2-D CAT 6 [DATE] [COUNTER] [UID]

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

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