

PRODUCT SPECIFICATIONS

LANMARK-1000 Enhanced Cat 6 Riser Rated Cable

LANMARK™-1000 Enhanced Cat 6 Riser Rated Cable

APPLICATION

LANMARK-1000 offers enhanced Cat 6 electrical performance for today's enterprise applications. Featuring 5 dB of margin to all TIA crosstalk parameters, LANMARK-1000 provides better signal strength and less susceptibility to external noise for your intelligent building devices.



BENEFITS

- Optimal support for Gigabit Ethernet with headroom
- Power sum characterization gives highest performance using existing applications
- Provides additional bandwidth required for future applications
- Addition of balance requirements improves overall cable performance and reduces cable emissions which results in reduced transmission errors
- Characterized to 550 MHz, 300 MHz greater than the standard
- Available in 1,500 feet SMARTPAK™ packaging to decrease cable and cardboard scrap at the jobsite
- Able to bundle 288 cables to support 100 W PoE

FEATURES

- Full Power Sum Performance
- Documented balance characteristics (LCL, LCTL)
- ETL verified to ANSI/TIA-568.2-D standard
- RoHS Compliant
- Performance beyond standard are independently verified by ETL in the Leviton Verified Performance program

CONSTRUCTION

23 AWG bare copper wire insulated with thermoplastic. Two insulated conductors twisted together to form a pair and four such pairs laid up with crossfiller to form the basic unit jacketed with with a flame retardant polymer.

STANDARDS & REGULATIONS

- ANSI/TIA-568.2-D Cat 6
- ISO/IEC 11801
- UL 444 Riser Rated
- IEEE 802.3bt PoE Types 1, 2, 3, 4 (100 watts max)
- Cisco UPOE, UPOE+ (90 watts max)
- Power over HDBaseT™ PoH (95 watts max)
- RoHS Compliant

FIRE RATING

- Riser - UL 1666, CMR, ETL Listed

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. 5.1 nf/100 m at 1 kHz
Capacitance unbalance (pair-to-ground)	Max. 330 pf/100 m at 1 kHz
Nominal velocity of propagation	68%
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):	+5 to +50 °C (41 °F to +122 °F)
Temperature (Operating):	-20 to +60 °C (-4 °F to +140 °F)
Temperature (Storage):	-20 to +60 °C (-4 °F to +140 °F)
ETL 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 802.3bt	PoE Types 1, 2, 3, and 4

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)	0.230	(5.84)
Nom. cable weight - lb./kft (kg/km)	25	(37.2)
Max. installation tension - lb. (N)	25	(110)
Min. bend radius - in. (mm)	1.00	(25.40)

COLOR CODE

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

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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	79.3	72.3	77.3	67.8	72.8
4	23.0	23.6	65.3	70.3	63.3	68.3	55.8	60.8
10	25.0	26.0	59.3	64.3	57.3	62.3	47.8	52.8
16	25.0	26.0	56.2	61.2	54.2	59.2	43.7	48.7
20	25.0	26.0	54.8	59.8	52.8	57.8	41.8	46.8
31.25	23.6	25.0	51.9	56.9	49.9	54.9	37.9	42.9
62.5	21.5	23.5	47.4	52.4	45.4	50.4	31.9	36.9
100	20.1	22.5	44.3	49.3	42.3	47.3	27.8	32.8
250	17.3	20.5	38.3	43.3	36.3	41.3	19.8	24.8
350	—	19.8	—	41.1	—	39.1	—	21.9
400**	—	19.5	—	40.3	—	38.3	—	20.8
500**	—	19.0	—	38.8	—	36.8	—	18.8
550**	—	18.8	—	38.2	—	36.2	—	18.0

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED										
Freq. MHz	IL (dB/100 m)		ACR* (dB/100 m)		PSACR† (dB/100 m)		PSACRF (dB/100 m)		LCL/TCL (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	77.3	70.3	75.3	64.8	69.8	50.0	35.0
4	3.8	3.8	61.5	66.5	59.5	64.5	52.8	57.8	44.0	23.0
10	6.0	5.9	53.3	58.4	51.3	56.4	44.8	49.8	40.0	15.0
16	7.6	7.5	48.7	53.7	46.7	51.7	40.7	45.7	38.0	10.9
20	8.5	8.4	46.3	51.4	44.3	49.4	38.8	43.8	37.0	9.0
31.25	10.7	10.6	41.2	46.3	39.2	44.3	34.9	39.9	35.1	—
62.5	15.4	15.3	32.0	37.1	30.0	35.1	28.9	33.9	32.0	—
100	19.8	19.7	24.5	29.6	22.5	27.6	24.8	29.8	30.0	—
250	32.8	32.6	5.5	10.7	3.5	8.7	16.8	21.8	26.0	—
350	—	39.5	—	1.6	—	-0.4	—	18.9	24.6	—
400**	—	42.7	—	-2.4	—	-4.4	—	17.8	24.0	—
500**	—	48.6	—	-9.8	—	-11.8	—	15.8	22.2	—
550**	—	51.4	—	-13.2	—	-15.2	—	15.0	22.6	—

*LANMARK-1000 does not guarantee ACR; values are provided are for information only
 **LANMARK-1000 is guaranteed to 350 MHz; values shown above 350 MHz are for information only
 † PSACR is only guaranteed for LANMARK-1000 up to 250 MHz. Any values above that are provided for information only

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PART NUMBERS

Description	Color	Length per reel (ft.)	Packaging	Part No.
LANMARK-1000 Enhanced Category 6 Riser	White	1000	Box	10032459
LANMARK-1000 Enhanced Category 6 Riser	Blue	1000	Box	10032455
LANMARK-1000 Enhanced Category 6 Riser	Dark gray	1000	Box	11096490
LANMARK-1000 Enhanced Category 6 Riser	Yellow	1000	Box	10032461
LANMARK-1000 Enhanced Category 6 Riser	Green	1000	Box	10032479
LANMARK-1000 Enhanced Category 6 Riser	Pink	1000	Box	10042063
LANMARK-1000 Enhanced Category 6 Riser	Red	1000	Box	10032477
LANMARK-1000 Enhanced Category 6 Riser	Black	1000	Box	10033815
LANMARK-1000 Enhanced Category 6 Riser	Violet	1000	Box	10032501
LANMARK-1000 Enhanced Category 6 Riser	Orange	1000	Box	10042077
LANMARK-1000 Enhanced Category 6 Riser	Brown	1000	Box	11061484
LANMARK-1000 Enhanced Category 6 Riser SMARTPAK™	White	1500	Box	11074740
LANMARK-1000 Enhanced Category 6 Riser SMARTPAK	Dark gray	1500	Box	11097256
LANMARK-1000 Enhanced Category 6 Riser SMARTPAK	Yellow	1500	Box	11075010
LANMARK-1000 Enhanced Category 6 Riser SMARTPAK	Blue	1500	Box	11074701
LANMARK-1000 Enhanced Category 6 Riser SMARTPAK	Green	1500	Box	11075011
LANMARK-1000 Enhanced Category 6 Riser	White	1000	Reel	10032458
LANMARK-1000 Enhanced Category 6 Riser	Blue	1000	Reel	10032454
LANMARK-1000 Enhanced Category 6 Riser	Dark gray	1000	Reel	11098537
LANMARK-1000 Enhanced Category 6 Riser	Yellow	1000	Reel	10032460
LANMARK-1000 Enhanced Category 6 Riser	Green	1000	Reel	10032478
LANMARK-1000 Enhanced Category 6 Riser	White	1000	Reel in a box	10065430
LANMARK-1000 Enhanced Category 6 Riser	Blue	1000	Reel in a box	10065429
LANMARK-1000 Enhanced Category 6 Riser	Dark gray	1000	Reel in a box	11098535
LANMARK-1000 Enhanced Category 6 Riser	Yellow	1000	Reel in a box	10065432
LANMARK-1000 Enhanced Category 6 Riser	Green	1000	Reel in a box	10065433

PRINT LEGEND:

BERK-TEK LANMARK-1000 23 AWG CMR 75C C(ETL)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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USA
Network Solutions Headquarters
+1 (800) 722 2082
infoUSA@leviton.com

Leviton Cable (formerly Berk-Tek)
+1 (800) 237 5835 | infoUSA@leviton.com

Asia Pacific
+852 3620 2602
infoAPAC@leviton.com

Canada
+1 (800) 461 2002
infoCanada@leviton.com

Europe
+44 (0) 1592 772124
infoEurope@leviton.com

Latin America
MX: +52 (55) 2128 6286
LATAM: +52 (55) 2333 5963
infoLATAM@leviton.com

Middle East & Africa
+971 (4) 247 9800
infoMEA@leviton.com

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