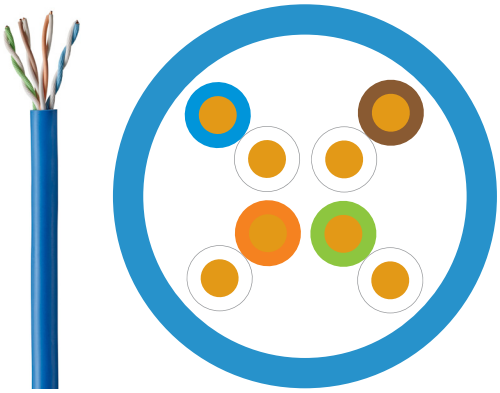
BERK-TEK LANMARK-6 UTP Plenum Rated Cable

APPLICATION

Leviton's BERK-TEK LANMARK-6 features a reduced diameter compared to other Category 6 UTP cables. This is an ETL Category 6 verified cable, constructed without the center spline for easy installation and termination. LANMARK-6 is capable of transmitting applications such as 1000BASE-T. It is ideal for network applications that extend to 250 MHz. LANMARK-6 is available in both CMP and CMR and conforms to ANSI/TIA-568.2 Category 6 and ISO/IEC 11801 Class E Category 6 requirements.



COUNTRY OF ORIGIN

USA

WARRANTY INFORMATION

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

FEATURES & BENEFITS

- Cost effective Category 6 performance in a compact design
- Provides additional usable bandwidth for future applications since it is characterized to 500 MHz
- Third-party verified performance
- May be installed in air-handling ducts and plenums without conduit in accordance with the National Electrical Code (NFPA 70) and the National Building Code of Canada
- Compact box design takes up less shelf space and allows cable to be pulled easily from the box without kinking
- Max bundle size for 100 W PoE is 240 cables
- Clearly identified packaging eliminates potential confusion
- Unique ID in print legend allows cable to be traced without additional equipment
- Made with Leviton's advanced FLX-1 technology for maximum flexibility, tighter bend radius and smoother pulls
- Includes innovative Patented Profile Technology
- Packaging is 100% recyclable

STANDARDS & REGULATIONS

- ANSI/TIA 568.2
- ISO/IEC 11801
- 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)
- UL 444
- RoHS Compliant (EU Directive 2011/65/EU (RoHS))

FIRE RATING

- Plenum - NFPA 262
- CMP - Plenum Rated

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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. 5.3 nf/100 m at 1 kHz
Capacitance unbalance (pair-to-ground)	Max. 330 pf/100 m at 1 kHz
Nominal velocity of propagation	65%
Delay skew	45 ns/100 m max.

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

TECHNICAL DATA - PHYSICAL

Conductor	24 AWG bare copper	
Conductor diameter - in. (mm)	0.022	(0.56)
Max insulated conductor diameter - in. (mm)	0.04	(1.0)
Nom. cable weight - lb./kft (kg/km)	26	(39)
Nom. cable diameter - in. (mm)	0.23	(5.8)

CHARACTERISTICS

Dimensional Characteristics	
Length per reel	1000 ft (305 m)
Number of pairs	4
Usage Characteristics	
Field of application	Indoor
Category	Cat 6 Indoor
Type of cable	UTP
Temperature (Installation):	-8 °C to +50 °C (+18 °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)
Listed temperature	+75 °C (+167 °F)

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.	RL (dB)		NEXT (dB)		PS NEXT (dB)		ACR* (dB)		PSACR* (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	74.3	72.3	72.3	72.3	72.3	70.3	70.3
4	23.0	23.0	65.3	65.3	63.3	63.3	61.5	61.5	59.5	59.5
10	25.0	25.0	59.3	59.3	57.3	57.3	53.3	53.3	51.3	51.3
16	25.0	25.0	56.2	56.2	54.2	54.2	48.7	48.7	46.7	46.7
20	25.0	25.0	54.8	54.8	52.8	52.8	46.3	46.3	44.3	44.3
31.25	23.6	23.6	51.9	51.9	49.9	49.9	41.2	41.2	39.2	39.2
62.5	21.5	21.5	47.4	47.4	45.4	45.4	32.0	32.0	30.0	30.0
100	20.1	20.1	44.3	44.3	42.3	42.3	24.5	24.5	22.5	22.5
150	18.9	18.9	41.7	41.7	39.7	39.7	16.9	16.9	14.9	14.9
200	18.0	18.0	39.8	39.8	37.8	37.8	10.8	10.8	8.8	8.8
250	17.3	17.3	38.3	38.3	36.3	36.3	5.5	5.5	3.5	3.5
300**	—	16.8	—	37.1	—	35.1	—	0.7	—	-1.3
350**	—	16.3	—	36.1	—	34.1	—	-3.6	—	-5.6
400**	—	15.9	—	35.3	—	33.3	—	-7.7	—	-9.7
450**	—	15.5	—	34.5	—	32.5	—	-11.5	—	-13.5
500**	—	15.2	—	33.8	—	31.8	—	-15.1	—	-17.1

*ACR and PSACR are provided for calculation only; they are not guaranteed for LANMARK-6

**LANMARK-6 is guaranteed between 1 MHz and 250 MHz; values above 250 MHz are for reference only and not a part of the product guarantee.

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

Freq.	IL (dB)		ACRF (dB)		PSACRF (dB)		LCL/TCL (dB)	EL TCTL (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	67.8	64.8	64.8	40.0	35.0
4	3.8	3.8	55.8	55.8	52.8	52.8	40.0	23.0
10	6.0	6.0	47.8	47.8	44.8	44.8	40.0	15.0
16	7.6	7.6	43.7	43.7	40.7	40.7	38.0	10.9
20	8.5	8.5	41.8	41.8	38.8	38.8	37.0	9.0
31.25	10.7	10.7	37.9	37.9	34.9	34.9	35.1	—
62.5	15.4	15.4	31.9	31.9	28.9	28.9	32.0	—
100	19.8	19.8	27.8	27.8	24.8	24.8	30.0	—
150	24.7	24.7	24.3	24.3	21.3	21.3	28.2	—
200	29.0	29.0	21.8	21.8	18.8	18.8	27.0	—
250	32.8	32.8	19.8	19.8	16.8	16.8	26.0	—
300*	—	36.4	—	18.3	—	15.3	25.2	—
350*	—	39.8	—	16.9	—	13.9	24.6	—
400*	—	43.0	—	15.8	—	12.8	24.0	—
450*	—	46.0	—	14.7	—	11.7	23.5	—
500*	—	48.9	—	13.8	—	10.8	23.0	—

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LEVITON
Network Solutions

PART NUMBERS

Description	Color	Packaging	Length (Ft.)	Part No.
LANMARK-6 UTP Plenum	White	TEKPAK™	1000	10136230
LANMARK-6 UTP Plenum	Blue	TEKPAK	1000	10136226
LANMARK-6 UTP Plenum	Dark gray	TEKPAK	1000	11091258
LANMARK-6 UTP Plenum	Yellow	TEKPAK	1000	10136749
LANMARK-6 UTP Plenum	Green	TEKPAK	1000	10136748
LANMARK-6 UTP Plenum	Pink	TEKPAK	1000	11049196
LANMARK-6 UTP Plenum	Red	TEKPAK	1000	10137365
LANMARK-6 UTP Plenum	Black	TEKPAK	1000	10188830
LANMARK-6 UTP Plenum	Violet	TEKPAK	1000	10137364
LANMARK-6 UTP Plenum	Orange	TEKPAK	1000	10141073
LANMARK-6 UTP Plenum	Brown	TEKPAK	1000	11060822
LANMARK-6 UTP Plenum	White	Reel	1000	10136265
LANMARK-6 UTP Plenum	Blue	Reel	1000	10136233
LANMARK-6 UTP Plenum	Dark gray	Reel	1000	11091284
LANMARK-6 UTP Plenum	Yellow	Reel	1000	10136751
LANMARK-6 UTP Plenum	Green	Reel	1000	10136750
LANMARK-6 UTP Plenum 1500 ft. SMARTPAK™	White	Box	1500	11074742
LANMARK-6 UTP Plenum 1500 ft. SMARTPAK	Blue	Box	1500	11074702
LANMARK-6 UTP Plenum 1500 ft. SMARTPAK	Dark gray	Box	1500	11094952
LANMARK-6 UTP Plenum 1500 ft. SMARTPAK	Yellow	Box	1500	11074893
LANMARK-6 UTP Plenum 1500 ft. SMARTPAK	Green	Box	1500	11074897

PRINT LEGEND:
BERK-TEK LANMARK-6 24AWG CMP 75C C(ETL)US ETL VERIFIED TIA-568.2 CAT 6 US7560646 US9368258 [DATE] [COUNTER] [UID]

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

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