

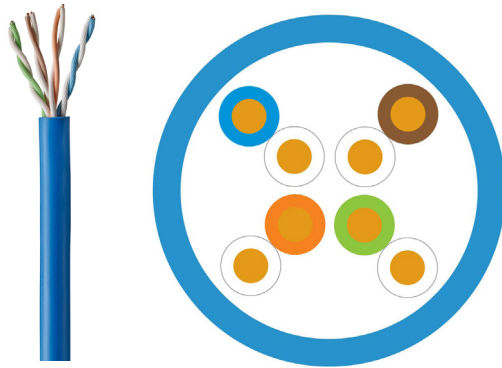
PRODUCT SPECIFICATIONS

BERK-TEK™ LANMARK™-6 UTP Riser Rated Cable

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APPLICATION

BERK-TEK LANMARK-6 features a reduced diameter compared to other Cat 6 UTP cables. This is an ETL Cat 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 Cat 6 and ISO/IEC 11801 2nd Edition Class E Cat 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
- 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
- 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

FIRE RATING

- UL 1666 Riser - NFPA 70
- CMR - Riser 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. 5.1 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

Field of application	Indoor
Category	Cat 6
Type of cable	UTP
Temperature (Storage):	-20 °C to +60 °C (-4 °F to +140 °F)
Temperature (Installation):	+5 °C to +50 °C (+41 °F to +122 °F)
Temperature (Operating):	-20 °C to +60 °C (-4 °F to +140 °F)
Listed temperature	+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	24 AWG bare copper	
Conductor diameter - in. (mm)	0.0210	(0.5334)
Max insulated conductor diameter - in. (mm)	0.0380	(0.9652)
Nom. cable weight - lb./kft (kg/km)	19.5	(29.0)
Nom. cable diameter - in. (mm)	0.205	(5.21)

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)		PS NEXT (dB)		ACR* (dB/100 m)		PSACR* (dB/100 m)	
	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 BERK-TEK LANMARK-6

**BERK-TEK 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. 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	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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PART NUMBERS				
Description	Color	Packaging	Length (Ft.)	Part No.
LANMARK-6 UTP Riser	White	Box	1000	10136340
LANMARK-6 UTP Riser	Blue	Box	1000	10136339
LANMARK-6 UTP Riser	Dark gray	Box	1000	11091257
LANMARK-6 UTP Riser	Yellow	Box	1000	10136753
LANMARK-6 UTP Riser	Green	Box	1000	10136752
LANMARK-6 UTP Riser	Pink	Box	1000	11058425
LANMARK-6 UTP Riser	Red	Box	1000	10170931
LANMARK-6 UTP Riser	Black	Box	1000	10170932
LANMARK-6 UTP Riser	Violet	Box	1000	11072302
LANMARK-6 UTP Riser	Orange	Box	1000	10189773
LANMARK-6 UTP Riser	White	Reel	1000	10136343
LANMARK-6 UTP Riser	Blue	Reel	1000	10136342
LANMARK-6 UTP Riser	Dark gray	Reel	1000	11091285
LANMARK-6 UTP Riser	Yellow	Reel	1000	10136775
LANMARK-6 UTP Riser	Green	Reel	1000	10136774
LANMARK-6 UTP Riser 1500 ft. SMARTPAK™	White	Box	1500	11074744
LANMARK-6 UTP Riser 1500 ft. SMARTPAK	Blue	Box	1500	11074703
LANMARK-6 UTP Riser 1500 ft. SMARTPAK	Dark gray	Box	1500	11094953
LANMARK-6 UTP Riser 1500 ft. SMARTPAK	Yellow	Box	1500	11074906
LANMARK-6 UTP Riser 1500 ft. SMARTPAK	Green	Box	1500	11074907

PRINT LEGEND:

BERK-TEK LANMARK-6 24 AWG CMR 75C C(ETL)US ETL VERIFIED TIA-568.2 CAT 6 [DATE] [COUNTER] [UID]

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