

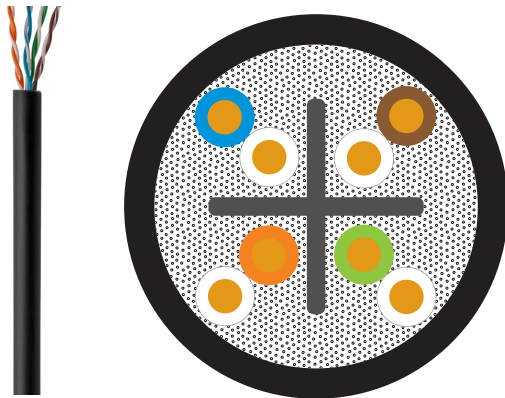
PRODUCT SPECIFICATIONS

BERK-TEK™ LANMARK™-6 Cat 6 OSP Cable

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APPLICATION

BERK-TEK LANMARK-6 OSP (Outside Plant) standard Cat 6 UTP cables are designed for outside applications, either aerial or buried in conduit or duct, where building to building ninterconnections must be made. Can be used to interconnect buildings or can be run beneath a slab in duct or conduit. LANMARK-6 UTP cable is intended for high-speed data applications.



FEATURES & BENEFITS

- Fully water blocked to meet NEC requirements for wet locations
- 23 AWG bare copper wire insulated with a black weather-resistant thermoplastic jacket for warranted, trouble-free installation and maintenance
- Cable injected with a water-resistant flooding compound and jacketed with UV weather resistant thermoplastic jacket to allow it to be used to interconnect buildings or run beneath a slab in duct or conduit
- Simplified structured cabling solution preserving long-term network investment

STANDARDS & REGULATIONS

- ANSI/TIA-568.2 Cat 6
- ANSI/ICEA 5-107-704-2012, PAR 8.2.1
- 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)

COUNTRY OF ORIGIN

USA

WARRANTY INFORMATION

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

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

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

CHARACTERISTICS

Category	Cat 6
Field of application	Outdoor
Type of cable	UTP
Temp. (Storage):	-40 °C to +60 °C (-40 °F to +140 °F)
Temp. (Installation):	-10 °C to +50 °C (14 °F to +122 °F)
Temp. (Operating):	-40 °C to +60 °C (-40 °F to +140 °F)

COLOR CODE

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

TECHNICAL DATA - PHYSICAL

Conductor	23 AWG bare copper	
Max conductor diameter - in. (mm)	0.022	(0.56)
Max insulated conductor diameter - in. (mm)	0.040	(1.02)
Nom. cable diameter - in. (mm)	0.250	(6.35)
Nom. cable weight - lb./kft (kg/km)	30.5	(45.4)
Max. installation tension - lb. (N)	25	(110)
Min. bend radius - in. (mm)	1.00	(25.4)

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GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

Freq.	RL (dB)		NEXT (dB)		PSNEXT (dB)		ACR** (dB)		PSACR† (dB)	
	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
250	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

*LANMARK-6 OSP is guarantees to 250 MHz; values shown above 250 MHz is for information only.

**ACR is provided for information only for LANMARK-6 OSP (not guaranteed).

†PSACR is a guaranteed parameter for LANMARK-6 OSP. TIA values are provided as calculations.

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

Freq.	IL (dB)		ACRF (dB)		PSACRF (dB)		LCL/TCL (dB)	ELTCTL (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	Part No.
LANMARK-6 Category 6 OSP Cable	Black	Reel	10139885

PRINT LEGEND:

BERK-TEK LANMARK-6 CAT 6 23AWG TYPE F OUTDOOR TIA-568.2 CAT 6 & ISO/IEC 11801 CAT 6 [DATE] [COUNTER] FT

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

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