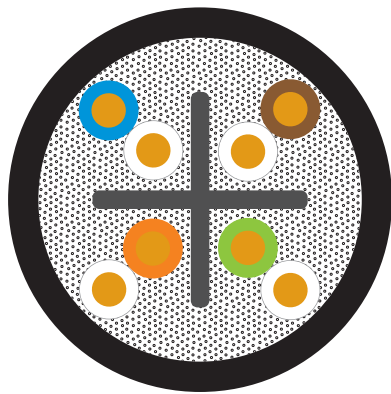


LANMARK™-6 Cat 6 OSP Cable

APPLICATION

Leviton's 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 interconnections 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.



BENEFITS

- Can be used to interconnect buildings or can be run beneath a slab in duct or conduit
- Simplified structured cabling solution preserving long-term network investment
- Warranted, trouble-free cabling installation and maintenance
- Meets NEC requirement for wet locations

FEATURES

- Fully water blocked
- 23 AWG bare copper wire insulated with thermoplastic
- Two insulated conductors twisted together to form a pair and four such pairs laid up with cross filler to form the basic unit
- Cable injected with a water resistant flooding compound and jacketed with UV weather resistant thermoplastic jacket

STANDARDS & REGULATIONS

- ANSI/TIA-568.2-D 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)

FIRE RATING

Unlisted

COUNTRY OF ORIGIN

USA

WARRANTY INFORMATION

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

PRODUCT SPECIFICATIONS
LANMARK™-6 Cat 6 OSP Cable

TECHNICAL SPECIFICATIONS

Electrical properties (20 °C ± 5 °C)

DC resistance	Max. 9.38 Ω/100 m
DC resistance unbalance	Max. 5%
Mutual capacitance	Nom. 5.6 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.
Velocity of propagation	65%

CHARACTERISTICS

Dimensional Characteristics

Length per reel	1000 ft (305 m)
Number of pairs	4

Usage Characteristics

Category	Cat 6
Type of cable	UTP
Temperature (Storage):	-40 °C to +60 °C (-40 °F to +140 °F)
Temperature (Installation):	-10 °C to +50 °C (+14 °F to +122 °F)
Temperature (Operating):	-40 °C to +60 °C (-40°F to +140 °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 802.3	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)	0.04	(1.02)
Nom. cable diameter - in. (mm)	0.250	(6.35)
Nom. cable weight - lb./kft (kg/km)	31	(46)
Max. installation tension - lb. (N)	25	(110)
Min. bend radius - in. (mm)	1.00	(25.4)

COLOR CODE

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

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

Freq.	RL (dB)		NEXT (dB)		PSNEXT (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
MHz										
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

*LANMARK-6 OSP is guaranteed 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.

PRODUCT SPECIFICATIONS
LANMARK™-6 Cat 6 OSP Cable

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

Freq.	IL (dB/100 m)		ACRF (dB/100 m)		PSACRF (dB/100 m)		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	—

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

PART NUMBERS

Description	Color	Packaging	Part No.
LANMARK-6 Cat 6 OSP UTP Cable	Black	Reel	10139885

PRINT LEGEND:

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

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

Page 3 of 3

USA
Network Solutions Headquarters
+1 (800) 722 2082
infoUSA@leviton.com

Leviton Berk-Tek Cable: +1 (800) 237 5835
berktek.info@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

NETWORK SOLUTIONS PRODUCTS ARE AVAILABLE WORLDWIDE IN OVER 100 COUNTRIES. VISIT US ONLINE AT LEVITON.COM/NS TO LEARN MORE.