

LANMARK™-1000 Cat 6 OSP Cable

APPLICATION

Leviton's LANMARK-1000 OSP (Outside Plant) enhanced Category 6 OSP 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.



BENEFITS

- 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 a black weather-resistant thermoplastic jacket
- 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

STANDARDS & REGULATIONS

- ANSI/TIA-568.2-D Cat 6
- ANSI/ICEA S-56-434
- ISO/IEC 11801
- ANSI/ICEA 5-107-704-2012, PAR 8.2.1
- 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-1000™ 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. 5.3 nf/100 m at 1 kHz
Capacitance unbalance (pair-to-ground)	Max. 330 pf/100 m at 1 kHz
Delay skew	35 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	OSP
Temperature (Storage):	-40 °C to +60 °C (-40 °F to +140 °F)
Temperature (Installation):	-10 °C to +50 °C (50 °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)	0.245	(6.22)
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)

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)		PSACR† (dB)	
	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	79.3	72.3	77.3	72.3	77.3	70.3	75.3
4	23.0	23.6	65.3	70.3	63.3	68.3	61.5	66.5	59.5	64.5
10	25.0	26.0	59.3	64.3	57.3	62.3	53.3	58.4	51.3	56.4
16	25.0	26.0	56.2	61.2	54.2	59.2	48.7	53.7	46.7	51.7
20	25.0	26.0	54.8	59.8	52.8	57.8	46.3	51.4	44.3	49.4
31.25	23.6	25.0	51.9	56.9	49.9	54.9	41.2	46.3	39.2	44.3
62.5	21.5	23.5	47.4	52.4	45.4	50.4	32.0	37.1	30.0	35.1
100	20.1	22.5	44.3	49.3	42.3	47.3	24.5	29.6	22.5	27.6
250	17.3	20.5	38.3	43.3	36.3	41.3	5.5	10.7	3.5	8.7
350	—	19.8	—	41.1	—	39.1	—	1.6	—	-0.4
400*	—	19.5	—	40.3	—	38.3	—	-2.4	—	-4.4
500*	—	19.0	—	38.8	—	36.8	—	-9.8	—	-11.8
550*	—	18.8	—	38.2	—	36.2	—	-13.2	—	-15.2

*LANMARK-1000 OSP is guaranteed to 350 MHz; values shown above 350 MHz is for information only.

**ACR is provided for information only for LANMARK-1000 OSP (not guaranteed).

†PSACR is a guaranteed parameter for LANMARK-1000 OSP up to 250 MHz; any value above this is provided for information only. TIA values are provided as calculations.

PRODUCT SPECIFICATIONS
LANMARK-1000™ Cat 6 OSP Cable

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
MHz								
1	2.0	2.0	67.8	72.8	64.8	69.8	50.0	35.0
4	3.8	3.8	55.8	60.8	52.8	57.8	44.0	23.0
10	6.0	5.9	47.8	52.8	44.8	49.8	40.0	15.0
16	7.6	7.5	43.7	48.7	40.7	45.7	38.0	10.9
20	8.5	8.4	41.8	46.8	38.8	43.8	37.0	9.0
31.25	10.7	10.6	37.9	42.9	34.9	39.9	35.1	—
62.5	15.4	15.3	31.9	36.9	28.9	33.9	32.0	—
100	19.8	19.7	27.8	32.8	24.8	29.8	30.0	—
250	32.8	32.6	19.8	24.8	16.8	21.8	26.0	—
350	—	39.5	—	21.9	—	18.9	24.6	—
400*	—	42.7	—	20.8	—	17.8	24.0	—
500*	—	48.6	—	18.8	—	15.8	23.0	—
550*	—	51.4	—	18.0	—	15.0	22.6	—

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**LCL/TCL is a guaranteed parameter for LANMARK-1000 OSP up to 250 MHz; any value above this is provided for information only.

PART NUMBERS			
Description	Color	Packaging	Part No.
LANMARK-1000 Category 6 OSP Cable	Black	Reel	11072213

PRINT LEGEND:

BERK-TEK LANMARK-1000 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