

LANMARK™-10G Cat 6A OSP Cable

APPLICATION

LANMARK-10G Cat 6A OSP (Outside Plant) Standard Category 6A UTP cables are designed for outside high-speed data applications, either aerial or buried in conduit or duct, where building to building interconnections must be made.



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
- Usable bandwidth up to 500 MHz
- Fully water blocked

CONSTRUCTION

23 AWG bare copper wire insulated with thermoplastic. Two insulated conductors twisted together to form a pair and four such pairs cabled around a cross filler to form the basic unit which is injected with a water resistant flooding compound and jacketed with black weather resistant polymer jacket.

STANDARDS & REGULATIONS

- ANSI/ICEA 5-107-704-2012, PAR 8.2.1
- ANSI/TIA-568.2-D Cat 6A
- IEEE 802.3bt PoE Type 1, 2, 3, 4 (100 watts max)
- Cisco UPOE, UPOE+ (90 watts max)
- Power over HDBaseT™ PoH (95 watts max)

WARRANTY INFORMATION

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

COUNTRY OF ORIGIN

USA

PRODUCT SPECIFICATIONS
LANMARK™-10G Cat 6A OSP Cable

HIGH SPEED DATA AND POWER APPLICATIONS

IEEE 802.3	10GBASE-T (10 Gb/s), 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 (100 watts max)

COLOR CODE

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

TECHNICAL SPECIFICATIONS

Electrical properties (20 °C ± 5 °C)

DC resistance	Max. 9.38 Ω/100 m
DC resistance unbalance	Max. 4%
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	64%
Delay skew	45 ns/100 m max.

CHARACTERISTICS

Dimensional Characteristics

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

Usage Characteristics

Category	Cat 6A
Type of cable	UTP
Temperature (Installation):	-10 °C to +50 °C (+14 °F to +122 °F)
Temperature (Operating):	-40 °C to +60 °C (-40 °F to +140 °F)
Temperature (Storage):	-40 °C to +60 °C (-40 °F to +140 °F)

TECHNICAL DATA - PHYSICAL

Conductor	23 AWG bare copper	
Max conductor diameter - in. (mm)	0.023	(0.58)
Max insulated conductor diameter - in. (mm)	0.047	(1.19)
Nom. cable diameter - in. (mm)	0.355	(9.02)
Nom. cable weight - lb./kft (kg/km)	50	(74.4)
Max. installation tension - lb. (N)	25	(110)
Min. bend radius - in. (mm)	1.42	(36.1)

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

Freq.	RL (dB)		NEXT (dB)		PSNEXT (dB)		PSANEXT (dB)		PSAACRF (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	67.0	67.0	67.0	67.0
4	23.0	23.0	65.3	65.3	63.3	63.3	67.0	67.0	66.2	66.2
10	25.0	25.0	59.3	59.3	57.3	57.3	67.0	67.0	58.2	58.2
16	25.0	25.0	56.2	56.2	54.2	54.2	67.0	67.0	54.1	54.1
20	25.0	25.0	54.8	54.8	52.8	52.8	67.0	67.0	52.2	52.2
31.25	23.6	23.6	51.9	51.9	49.9	49.9	67.0	67.0	48.3	48.3
62.5	21.5	21.5	47.4	47.4	45.4	45.4	65.6	65.6	42.3	42.3
100	20.1	20.1	44.3	44.3	42.3	42.3	62.5	62.5	38.2	38.2
250	17.3	17.3	38.3	38.3	36.3	36.3	56.5	56.5	30.2	30.2
350	16.3	16.3	36.1	36.1	34.1	34.1	54.3	54.3	27.3	27.3
400	15.9	15.9	35.3	35.3	33.3	33.3	53.5	53.5	26.2	26.2
500	15.2	15.2	33.8	33.8	31.8	31.8	52.0	52.0	24.2	24.2
600**	—	14.7	—	32.6	—	30.6	—	50.8	—	22.6
700**	—	14.0	—	31.2	—	29.2	—	49.4	—	20.7

PRODUCT SPECIFICATIONS
LANMARK™-10G Cat 6A OSP Cable

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

Freq.	IL (dB/100 m)		ACR* (dB/100 m)		PSACR* (dB/100 m)		PSACRF (dB/100 m)		ACRF (dB/100 m)		LCL/TCL (db)	ELTCTL (db)
	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	Product Guarantee	Product Guarantee
1	2.1	2.1	72.2	72.2	70.2	70.2	64.8	64.8	67.8	67.8	40.0	35.0
4	3.8	3.8	61.5	61.5	59.5	59.5	52.8	52.8	55.8	55.8	40.0	23.0
10	5.9	5.9	53.4	53.4	51.4	51.4	44.8	44.8	47.8	47.8	40.0	15.0
16	7.5	7.5	48.8	48.8	46.8	46.8	40.7	40.7	43.7	43.7	38.0	10.9
20	8.4	8.4	46.4	46.4	44.4	44.4	38.8	38.8	41.8	41.8	37.0	9.0
31.25	10.5	10.5	41.4	41.4	39.4	39.4	34.9	34.9	37.9	37.9	35.1	—
62.5	15.0	15.0	32.4	32.4	30.4	30.4	28.9	28.9	31.9	31.9	32.0	—
100	19.1	19.1	25.2	25.2	23.2	23.2	24.8	24.8	27.8	27.8	30.0	—
250	31.1	31.1	7.3	7.3	5.3	5.3	16.8	16.8	19.8	19.8	26.0	—
350	37.2	37.2	-1.1	-1.1	-3.1	-3.1	13.9	13.9	16.9	16.9	24.6	—
400	40.1	40.1	-4.8	-4.8	-6.8	-6.8	12.8	12.8	15.8	15.8	24.0	—
500	45.3	45.3	-11.4	-11.4	-13.4	-13.4	10.8	10.8	13.8	13.8	23.0	—
600**	—	50.1	—	-17.4	—	-19.4	—	9.2	—	12.2	22.2	—
700**	—	56.7	—	-25.5	—	-27.5	—	7.3	—	10.3	21.2	—

*Values (ACR and PSACR are not guaranteed for LANmark-10G OSP)

**LANMARK-10G OSP is guaranteed to 500 MHz; values shown above 500 MHz are for information only

PART NUMBERS

Description	Part No.
LANMARK-10G Cat 6A OSP	11094458

PRINT LEGEND:

BERK-TEK LANMARK-10G CAT 6A 23AWG TYPE CF OUTDOOR SUNLIGHT RESISTANT ETL VERIFIED TIA-568.2-D CAT 6A & ISO/IEC 11801 CAT 6A [DATE] [COUNTER] FT

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