

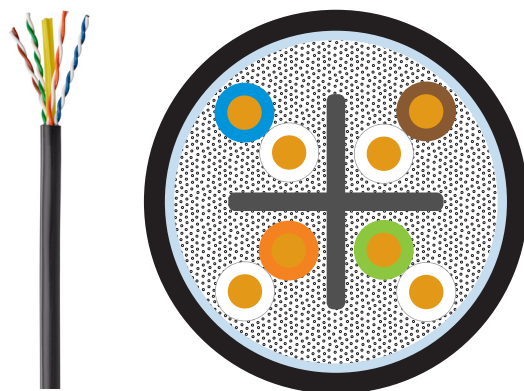
PRODUCT SPECIFICATIONS

BERK-TEK™ Stadion Cat 6 OSP Extended Distance Cable

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APPLICATION

BERK-TEK Stadion OSP (Outside Plant) is a category 6 cable designed with state-of-the-art technology to support outdoor extended distance applications. Its gel-filled core and rugged jacket provide water and sunlight resistance to support security cameras, Wi-Fi access points, and other devices in challenging environments. Send data and power to industry leading lengths with BERK-TEK Stadion OSP cables.



COUNTRY OF ORIGIN

USA

WARRANTY INFORMATION

The Stadion OSP outdoor cable contains water blocking gel. These cables are designed for various outdoor applications such as on building, above ground, lashed, or within conduit; and self-supporting aerial installations. This cable is not intended for installation in indoor locations beyond applicable building codes. The cable has no rodent deterrent properties. For Leviton product warranties, go to Leviton.com/ns/warranty.

FEATURES & BENEFITS

- 0.300" (7.62 mm) diameter gel-filled cable designed to support mission-critical extended distance applications in real-world conditions
- Supports 1000BASE-T and 100 W PoE up to 225 meters plug-to-plug
- Supports 10/100/1000 Mbps and 30, 60, 100 W PoE up to 200 meters in a 2, 3, or 4-conductor PARADIGM™ channel at temperatures up to 60 °C
- Supports extended reach applications up to 2.5 Gbps at 165 m when used in a PARADIGM™ channel, up to 60 °C
- Uses 22 AWG conductors to efficiently transmit high power PoE without generating excess heat.
- Features 7% IL margin above Cat 6 for unmatched signal strength
- Compliant with Cat 6 requirements for termination with a wide-variety of connectivity
- Sunlight and weather-resistant jacket keeps networks working in harsh environments
- Fully water blocked and meets NEC requirement for wet locations

STANDARDS & REGULATIONS

- ANSI/TIA 568.2
- ISO/IEC 11801 Class E
- IEC 61156-5
- EN 50228-6-1
- EN 50173-1
- EN 50288-11-1
- 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)
- RoHS Compliant

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CHARACTERISTICS

Dimensional Characteristics

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

Usage Characteristics

Category	Cat 6
Fire Safety	Outdoor Rated
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)

TECHNICAL SPECIFICATIONS

Electrical properties (20 °C ± 5 °C)

DC resistance	Max. 6.5 Ω/100 m at 20 °C
DC resistance unbalance	Max. 5%
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

TECHNICAL DATA - PHYSICAL

Conductor	22 AWG Bare Copper	
Conductor Diameter - in. (mm)	0.025	(0.64)
Insulated Conductor Diameter - in. (mm)	0.050	(1.3)
Nom. Cable Diameter - in. (mm)	0.300	(7.62)
Nom. Cable Weight - lb./kft (kg/km)	47	(70)
Max. Installation Tension - lb. (N)	25	(110)
Min. Bend Radius - in. (mm)	1.24	(31.5)

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)		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	72.4	70.3	70.4
4	23.0	23.0	65.3	65.3	63.3	63.3	61.5	61.8	59.5	59.8
10	25.0	25.0	59.3	59.3	57.3	57.3	53.3	53.8	51.3	51.8
16	25.0	25.0	56.2	56.2	54.2	54.2	48.7	49.2	46.7	47.2
20	25.0	25.0	54.8	54.8	52.8	52.8	46.3	46.9	44.3	44.9
31.25	23.6	23.6	51.9	51.9	49.9	49.9	41.2	41.9	39.2	39.9
62.5	21.5	21.5	47.4	47.4	45.4	45.4	32.0	33.0	30.0	31.0
100	20.1	20.1	44.3	44.3	42.3	42.3	24.5	25.9	22.5	23.9
150	18.9	18.9	41.7	41.7	39.7	39.7	16.9	18.7	14.9	16.7
200	18.0	18.0	39.8	39.8	37.8	37.8	10.8	12.8	8.8	10.8
250	17.3	17.3	38.3	38.3	36.3	36.3	5.5	7.7	3.5	5.7
300*	—	16.8	—	37.1	—	35.1	—	3.2	—	1.2
350*	—	16.3	—	36.1	—	34.1	—	-0.9	—	-2.9
400*	—	15.9	—	35.3	—	33.3	—	-4.8	—	-6.8
450*	—	15.5	—	34.5	—	32.5	—	-8.4	—	-10.4
500*	—	15.2	—	33.8	—	31.8	—	-11.8	—	-13.8

*Stadion is guaranteed between 1 MHz and 250 MHz. Values for ACR and PSACR are provided as calculations. Values above 250 MHz are for reference only.

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED								
Freq. MHz	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	1.9	67.8	67.8	64.8	64.8	40.0	35.0
4	3.8	3.5	55.8	55.8	52.8	52.8	40.0	23.0
10	6.0	5.5	47.8	47.8	44.8	44.8	40.0	15.0
16	7.6	7.0	43.7	43.7	40.7	40.7	38.0	10.9
20	8.5	7.9	41.8	41.8	38.8	38.8	37.0	9.0
31.25	10.7	9.9	37.9	37.9	34.9	34.9	35.1	—
62.5	15.4	14.3	31.9	31.9	28.9	28.9	32.0	—
100	19.8	18.4	27.8	27.8	24.8	24.8	30.0	—
150	24.7	23.0	24.3	24.3	21.3	21.3	28.2	—
200	29.0	27.0	21.8	21.8	18.8	18.8	27.0	—
250	32.8	30.6	19.8	19.8	16.8	16.8	26.0	—
300*	—	33.9	—	18.3	—	15.3	25.2	—
350*	—	37.1	—	16.9	—	13.9	24.6	—
400*	—	40.0	—	15.8	—	12.8	24.0	—
450*	—	42.9	—	14.7	—	11.7	23.5	—
500*	—	45.6	—	13.8	—	10.8	23.0	—

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PART NUMBERS

Description	Color	Packaging	Field Application	Part No.
Stadion OSP	Black	Reel	Outdoor	11144870

PRINT LEGEND:

BERK-TEK STADION CAT 6 U/UTP 22 AWG OSP SUNLIGHT RESISTANT ETL VERIFIED TIA-568.2 CAT 6 [DATE] [COUNTER] [UID]

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

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