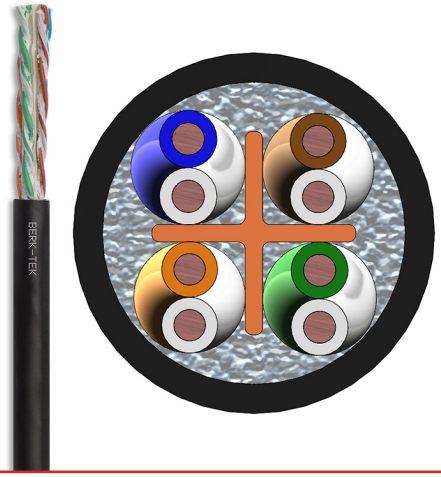
LANmark-6 OSP

LANmark-6 OSP UTP

Contact
Copper LAN Product Inquiry
Phone: 717-354-6200
berktek.support@leviton.com



Part Number: 10139885

Berk-Tek's LANmark-6 OSP (Outside Plant) Standard Category 6 UTP cables are designed for outside applications, either aerial or buried in conduit or duct, where building to building interconnections must be made.

DESCRIPTION

Construction:23 AWG bare copper wire insulated with polyethylene. 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 UV resistant polyethylene jacket.

Standards: North American: ANSI/TIA-568.2-D Category 6

Flame Rating: Not flame rated

ANSI/ICEA 5-107-704-2012, PAR 8.2.1 - Water Penetration

Applications: Berk-Tek's LANmark-6 UTP cable is intended for high speed data applications including:

- IEEE 802.3 1000BASE-T 1 Gb/s
- TIA/EIA-854 1000BASE-TX 1 Gb/s
- ATM 155 Mb/s 155 Mb/s
- IEEE 802.3 100BASE-TX 100 Mb/s
- CDDI 100 Mb/s
- IEEE 802.3 10BASE-T 10 Mb/s
- IEEE 802.3bt PoE++ Type 3 and 4 10Gb/s

Features

- Meets the requirements of ANSI/TIA-568.2-D
- Usable bandwidth up to 250 MHz
- Fully water blocked

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

STANDARDS

National ANSI/TIA 568.2-D

PROUDLY MADE IN THE USA

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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CHARACTERISTICS

Construction characteristics	
Type of cable	UTP
Dimensional characteristics	
Length per reel	1000.0 ft
Number of pairs	4
Usage characteristics	
Packaging	Reel
Field of application	Outdoor
Category	Cat. 6
Fire safety	–
Recommended installation temperature range	-40 .. 60 °C
Recommended operating temperature range	-40 .. 60 °C

LANMARK-6 OSP - TECHNICAL INFORMATION

Electrical Characteristics

Freq.	RL (dB) min.	Insertion Loss (dB) max.	PSNEXT (dB) min.	NEXT (dB) min.
1	20.0	2.0	72.3	74.3
4	23.0	3.8	63.3	65.3
10	25.0	6.0	57.3	59.3
16	25.0	7.6	54.3	56.2
20	25.0	8.5	52.8	54.8
31.25	23.6	10.7	49.9	51.9
62.5	21.5	15.4	45.4	47.4
100	20.1	19.8	42.3	44.3
250	17.3	32.8	36.3	38.3

Freq.	ACR** (dB) min.	PSACR (dB) min.	ACRF (dB) min.	PSACRF (dB) min.
1	72.3	70.3	67.8	64.8
4	61.5	59.5	55.8	52.8
10	53.3	51.3	47.8	44.8
16	48.7	46.7	43.7	40.7
20	46.3	44.3	41.8	38.8
31.25	41.2	39.2	37.9	34.9
62.5	32.0	30.0	31.9	28.9
100	24.5	22.5	27.8	24.8
250	5.4	3.4	19.8	16.8

*Values provided for reference only
** Values for ACR are provided as calculations

Parametric Measurements

Description	
Mutual Capacitance	5.6 nF/100m nom. at 1 KHz
DC Resistance	9.38 Ohms/100m max.
Skew	45 ns/100m max.
Pair-to-Ground Unbalance	330 pF/100m max.

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Velocity of Propagation		65% nom.
DC Resistance Unbalance		5% max.
Color Code		
Pair-1	White/Blue	Blue
Pair-2	White/Orange	Orange
Pair-3	White/Green	Green
Pair-4	White/Brown	Brown

Technical Data - Physical		
Conductor		23 AWG Bare Copper
Conductor Diameter - in. (mm)	0.022	(0.56)
Insulated Conductor Diameter - in. (mm)	0.04	(1.02)
Cable Diameter - in. (mm)	0.250	(6.4)
Nom. Cable Weight - lb./kft (kg/kft)	31	(0.46)
Max. Installation Tension - lb. (N)	25	(110)
Min. Bend Radius - in. (mm)	1.00	(25.4)

SELLING INFORMATION

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