

# LANmark-10G Cat 6A OSP

## Contact

Copper LAN Product Inquiry  
Phone: 717-354-6200  
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Berk-Tek's LANmark-10G Cat 6A OSP (Outside Plant) Standard Category 6A 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 black weather resistant polyethylene jacket.

**Standards:** North American: ANSI/TIA-568.2-D Category 6A, ETL Verified

ANSI/ICEA S-56-434 Outdoor Use

**Flame Rating:** Not flame rated

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

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

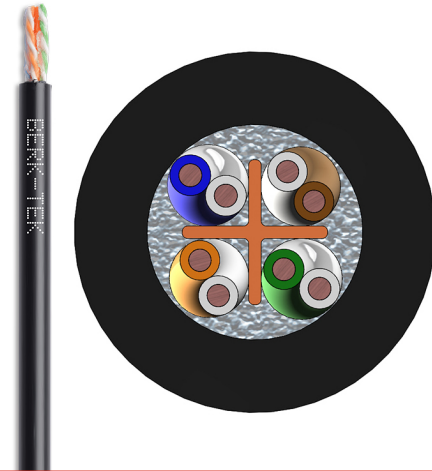
- IEEE 802.3 10GBASE-T 10 Gb/s
- TIA/EIA-854 1000BASE-TX 1 Gb/s
- ATM 155 Mb/s 155 Mb/s
- IEEE 802.3 100BASE-TX 100 Mb/s
- CDDI 100 Mb/s
- IEEE 802.3 10BASE-T 10 Mb/s
- 802.3af PoE
- 802.3at PoE+

## Features

- Meets the requirements of ANSI/TIA-568.2-D
- Usable bandwidth up to 500 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



Recommended installation temperature range  
-40 .. 60 °C



Recommended operating temperature range  
-40 .. 60 °C

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
Colour	Black

### Dimensional characteristics


Length per reel	1000.0 ft
Number of pairs	4

### Usage characteristics

Packaging	Reel
Field of application	Outdoor
Category	Cat. 6A
Recommended installation temperature range	-40 .. 60 °C
Recommended operating temperature range	-40 .. 60 °C

## PRODUCT LIST

Part Number	Description
 11094458	LANmark-10G Cat 6A OSP

 = Make to order,  = In stock

## LANMARK-10G OSP - TECHNICAL INFORMATION

Electrical Characteristics				
Freq.	RL (dB) min.	Insertion Loss (dB) max.	PSNEXT (dB) min.	NEXT (dB) min.
1	20.0	2.1	72.3	74.3
4	23.0	3.8	63.3	65.3
10	25.0	5.9	57.3	59.3
16	25.0	7.5	54.2	56.2
20	25.0	8.4	52.8	54.8
31.25	23.6	10.5	49.9	51.9
62.5	21.5	15.0	45.4	47.4
100	20.1	19.1	42.3	44.3
250	17.3	31.1	36.3	38.3
350	16.3	37.2	34.1	36.1
400	15.9	40.1	33.3	35.3
500	15.2	45.3	31.8	33.8
Freq.	PSANEXT (dB) min.	PSAACRF (dB/100m) min.	ACRF (dB) min.	PSACRF (dB) min.
1	67.0	67.0	67.8	64.8
4	67.0	66.2	55.8	52.8
10	67.0	58.2	47.8	44.8
16	67.0	54.1	43.7	40.7
20	67.0	52.2	41.8	38.8
31.25	67.0	48.3	37.9	34.9
62.5	65.6	42.3	31.9	28.9
100	62.5	38.2	27.8	24.8
250	56.5	30.2	19.8	16.8

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350	54.3	27.3	16.9	13.9
400	53.5	26.2	15.8	12.8
500	52.0	24.2	13.8	10.8

## Parametric Measurements

### Description

Mutual Capacitance	5.3 nF/100m nom.
DC Resistance	9.38 Ohms/100m max.
Skew	45 ns/100m max.
Pair-to-Ground Unbalance	330 pF/100m max.
Velocity of Propagation	64% nom.
DC Resistance Unbalance	4% 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)	0.023	(0.58)
Insulated Conductor Diameter - in. (mm)	0.047	(1.19)
Cable Diameter - in. (mm)	0.355	(9.02)
Nom. Cable Weight - lb./kft (kg/kft)	50	(22.68)
Max. Installation Tension - lb. (N)	25	(110)
Min. Bend Radius - in. (mm)	1.42	(36.1)

## SELLING INFORMATION

PLEASE NOTE: In the interest of product improvement, Berk-Tek, a Nexans company may make improvements or changes in the products, the programs or services described at any time without notice. Additionally, the information contained herein may include typographical errors or technical inaccuracies. Changes will be periodically made to address any such issues.