

Contact

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LANmark-10G Cat 6A OSP

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/EIA-568-C.2 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:

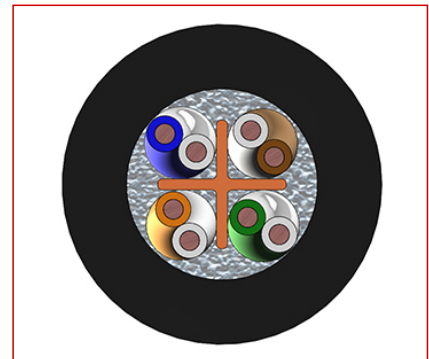
- | | | |
|----------------|-------------|----------|
| • IEEE 802.3 | 1000BASE-T | 1 Gb/s |
| • TIA/EIA-854 | 1000BASE-TX | 1 Gb/s |
| • ATM | 155 Mb/s | 155 Mb/s |
| • IEEE 802.3 | 100BASE-TX | 100 Mb/s |
| • CDDI | | 100 Mb/s |
| • IEEE 802.3 | 10BASE-T | 10 Mb/s |
| • 802.3af PoE | | |
| • 802.3at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

Features

- Meets the requirements of ANSI/TIA/EIA-568-C.2
- 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-C.2



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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 |

Product List

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

 = Make to order,  = In stock

Technical Data - Physical

| Technical Data - Physical | | | Color Code | | | | | | | | |
|--|----------------|---------|---|--------------|--------|--------------------|--|--------------|----------------|-----------|----------------|
| Conductor | | | Pair-1 | White/Blue | Blue | | | | | | |
| 23 AWG Bare Copper | | | Pair-2 | White/Orange | Orange | | | | | | |
| Conductor diameter-in. (mm) | 0.023 | (0.58) | Pair-3 | White/Green | Green | | | | | | |
| Insulated Conductor Diameter- in. (mm) | 0.047 | (1.19) | Pair-4 | White/Brown | Brown | | | | | | |
| Cable diameter-in. (mm) | 0.355 | (9.02) | <table border="1"> <thead> <tr> <th colspan="2">Temperature Rating</th> </tr> </thead> <tbody> <tr> <td>Installation</td> <td>-30°C to +60°C</td> </tr> <tr> <td>Operation</td> <td>-40°C to +70°C</td> </tr> </tbody> </table> | | | Temperature Rating | | Installation | -30°C to +60°C | Operation | -40°C to +70°C |
| Temperature Rating | | | | | | | | | | | |
| Installation | -30°C to +60°C | | | | | | | | | | |
| Operation | -40°C to +70°C | | | | | | | | | | |
| Nominal cable weight-lb./kft. (kg/km) | 50 | (22.68) | | | | | | | | | |
| Max. installation tension-lb. (N) | 25 | (111) | | | | | | | | | |
| Min. bend radius-in. (mm) | 1.42 | (36.1) | | | | | | | | | |

Technical Data - Parametric Measurements

| | |
|--------------------------|----------------------|
| Mutual Capacitance | 5.3 nF/100 m nom. |
| DC resistance | 9.38 Ohms/100 m nom. |
| Skew | 45 ns/100 m max. |
| Pair to ground Unbalance | 330 pF/100 m max. |
| Velocity of Propagation | 64% nom. |

LANmark-10G Cat 6A OSP

Technical Data - Electrical

| FREQ MHz | RL (dB) | IL (dB/100m) | PS-NEXT (dB) | NEXT (dB) | PS-ANEXT (dB) | PS-AACRF (dB/100m) | ACRF (dB) | PS-ACRF (dB) |
|----------|---------|--------------|--------------|-----------|---------------|--------------------|-----------|--------------|
| | min. | max. | min. | min. | min. | min. | min. | min. |
| 1 | 20.0 | 2.1 | 72.3 | 74.3 | 67.0 | 67.0 | 67.8 | 64.8 |
| 4 | 23.0 | 3.8 | 63.3 | 65.3 | 67.0 | 66.2 | 55.8 | 52.8 |
| 10 | 25.0 | 5.9 | 57.3 | 59.3 | 67.0 | 58.2 | 47.8 | 44.8 |
| 16 | 25.0 | 7.5 | 54.2 | 56.2 | 67.0 | 54.1 | 43.7 | 40.7 |
| 20 | 25.0 | 8.4 | 52.8 | 54.8 | 67.0 | 52.2 | 41.8 | 38.8 |
| 31.25 | 23.6 | 10.5 | 49.9 | 51.9 | 67.0 | 48.3 | 37.9 | 34.9 |
| 62.5 | 21.5 | 15.0 | 45.4 | 47.4 | 65.6 | 42.3 | 31.9 | 28.9 |
| 100 | 20.1 | 19.1 | 42.3 | 44.3 | 62.5 | 38.2 | 27.8 | 24.8 |
| 250 | 17.3 | 31.1 | 36.3 | 38.3 | 56.5 | 30.2 | 19.8 | 16.8 |
| 350 | 16.3 | 37.2 | 34.1 | 36.1 | 54.3 | 27.3 | 16.9 | 13.9 |
| 400 | 15.9 | 40.1 | 33.3 | 35.3 | 53.5 | 26.2 | 15.8 | 12.8 |
| 500 | 15.2 | 15.3 | 31.8 | 33.8 | 52.0 | 24.2 | 13.8 | 10.8 |

Selling information

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