

## Contact

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

## LANmark-6 OSP

LANmark-6 OSP UTP

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:** 24 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/EIA-568-B.2-1 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  |

### Standards

**National** ANSI/TIA-568-c.2 Category 6

### Features

- Meets the requirements of ANSI/TIA/EIA-568-B.2-1
- 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

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**Characteristics**

|                                     |           |
|-------------------------------------|-----------|
| <b>Construction characteristics</b> |           |
| Type of cable                       | UTP       |
| <b>Dimensional characteristics</b>  |           |
| Length per reel                     | 1000.0 ft |
| Number of pairs                     | 4         |
| <b>Usage characteristics</b>        |           |
| Packaging                           | Reel      |
| Field of application                | Outdoor   |
| Category                            | Cat. 6    |
| Fire safety                         | —         |

**Technical Data - Physical**

| Technical Data - Physical              |                    |        |  | Color Code         |                |        |
|--|--------------------|--------|--|--------------------|----------------|--------|
|  |                    |        |  | Pair-1             | White/Blue     | Blue   |
| Conductor                              | 24 AWG Bare Copper |        |  | Pair-2             | White/Orange   | Orange |
| Conductor diameter—in. (mm)            | 0.021              | (0.54) |  | Pair-3             | White/Green    | Green  |
| Insulated Conductor Diameter- in. (mm) | 0.042              | (1.07) |  | Pair-4             | White/Brown    | Brown  |
| Cable diameter—in. (mm)                | 0.25               | (6.4)  |  |                    |                |        |
| Nominal cable weight—lb./kft. (kg/km)  | 28                 | (41.3) |  | Temperature Rating |                |        |
| Max. installation tension—lb. (N)      | 25                 | (110)  |  | Installation       | -30°C to +60°C |        |
| Min. bend radius—in. (mm)              | 1                  | (25.4) |  | Operation          | -40°C to +70°C |        |

**Technical Data - Parametric Measurements**

|                                 |                      |
|---------------------------------|----------------------|
| <b>Mutual Capacitance</b>       | 4.6 nF/100 m nom.    |
| <b>DC resistance</b>            | 8.16 Ohms/100 m nom. |
| <b>Skew</b>                     | 45 ns/100 m max.     |
| <b>Pair to ground Unbalance</b> | 330 pF/100 m max.    |
| <b>Velocity of Propagation</b>  | 62% nom.             |

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**Technical Data - Electrical**

| FREQ MHz | RL (dB) | IL (dB/100m) | PS-NEXT (dB) | NEXT (dB) | ACR (dB/100m) | PS-ACR (dB/100m) | ELFEXT (dB) | PS-ELFEXT (dB) |
|----------|---------|--------------|--------------|-----------|---------------|------------------|-------------|----------------|
|          | min.    | max.         | min.         | min.      | min.          | min.             | min.        | min.           |
| 1        | 20.0    | 2.0          | 72.3         | 74.3      | 72.3          | 70.3             | 67.8        | 64.8           |
| 4        | 23.0    | 3.8          | 63.3         | 65.3      | 61.5          | 59.5             | 55.8        | 52.8           |
| 10       | 25.0    | 6.0          | 57.3         | 59.3      | 53.3          | 51.3             | 47.8        | 44.8           |
| 16       | 25.0    | 7.6          | 54.3         | 56.2      | 48.7          | 46.7             | 43.7        | 40.7           |
| 20       | 25.0    | 8.5          | 52.8         | 54.8      | 46.3          | 44.3             | 41.8        | 38.8           |
| 31.25    | 23.6    | 10.7         | 49.9         | 51.9      | 41.2          | 39.2             | 37.9        | 34.9           |
| 62.5     | 21.5    | 15.4         | 45.4         | 47.4      | 32.0          | 30               | 31.9        | 28.9           |
| 100      | 20.1    | 19.8         | 42.3         | 44.3      | 24.5          | 22.5             | 27.8        | 24.8           |
| 250      | 17.3    | 32.8         | 36.3         | 38.3      | 5.4           | 3.4              | 19.8        | 16.8           |

**Selling information**

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