

Contact

Copper LAN Product Inquiry
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LANmark-6 OSP

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/EIA-568-B.2-1 Category 6

Flame Rating: Not flame rated

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

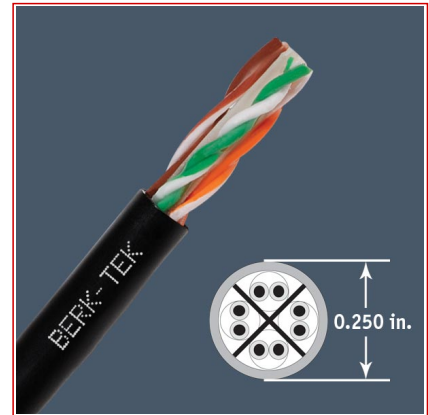
• IEEE 802.3	1000BASE-T	1 Gb/s
• TIA/EIA-854	1000BASE-TX	1 Gb/s
• ATM	155 Mb/s	155 Mb/s
• IEEE 802.3	100BASE-TX	100 Mb/s
• CDDI		100 Mb/s
• IEEE 802.3	10BASE-T	10 Mb/s

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



Standards

National TIA/EIA-568-B.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. 6
Fire safety	—

Technical Data - Physical

Technical Data - Physical			Color Code		
Conductor	23 AWG Bare Copper		Pair-1	White/Blue	Blue
Conductor diameter—in. (mm)	0.021	(0.54)	Pair-2	White/Orange	Orange
Insulated Conductor Diameter- in. (mm)	0.042	(1.07)	Pair-3	White/Green	Green
Cable diameter—in. (mm)	0..25	(6.4)	Pair-4	White/Brown	Brown
Nominal cable weight—lb./kft. (kg/km)	28	(41.3)	Temperature Rating		
Max. installation tension—lb. (N)	25	(110)	Installation	0°C to +50°C	
Min. bend radius—in. (mm)	1	(25.4)	Operation	-40°C to +70°C	

Technical Data - Parametric Measurements

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


The use of gel filling in the cable requires a 5% allowance to propagation delay as specified in TIA/EIA-568-B.2-1



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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

Product List

Part Number	Description
 10139885	LANmark-6 OSP UTP

 = Make to order,  = Make to stock

Selling delivery 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.