

Contact

Copper LAN Product Inquiry
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NEW LANmark-6 Category 6 UTP Plenum

The NEW Berk-Tek LANmark-6 features a reduced diameter compared to other category 6 UTP cables. This is an ANSI/TIA/EIA category 6 verified cable, constructed without the center spline for easy installation and termination. LANmark-6 is capable of transmitting applications such as 1000BASE-T. It is ideal for network applications that extend to 250 MHz. LANmark-6 is available in both CMP and CMR and conforms to ANSI/TIA/EIA 568-B.2-1 Category 6 and ISO/IEC 11801 2nd Edition Class E Category 6 requirements.

Description

Construction: 23 AWG bare copper wire insulated with thermoplastic. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit, jacketed with flame-retardant PVC.

Standards:

- North American: ANSI/TIA/EIA-568-B.2-1 Category 6, UL 444 and C22.2 No. 214-02
- International: ISO/IEC 11801 2nd Edition Category 6, EU Directive 2002/95/EC (RoHS)

Flame Rating:

Plenum -NFPA 262, CMP

UL Listed

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

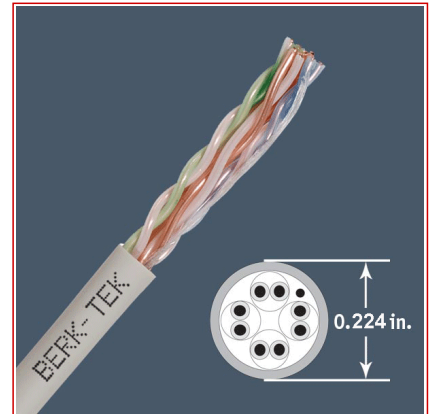
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|---------------|-------------|----------|
| • IEEE 802.3 | 1000BASE-T | 1 Gb/s |
| • TIA/EIA-854 | 1000BASE-TX | 1 Gb/s |
| • ATM | 155 Mb/s | 155 Mb/s |
| • IEEE 802.3 | 100BASE-TX | 100 Mb/s |
| • CDDI | | 100 Mb/s |
| • IEEE 802.3 | 10BASE-T |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

Features

- Inexpensive compact design with no center spline and an OD of 0.224 inches
- Meets the requirements of ANSI/TIA/EIA-568-B.2-1
- Usable bandwidth up to 250 MHz
- Delivered in compact, strong, easy to identify boxes

Benefits

- Simplified installation
- Cost effective, entry level category 6 solution
- Superior box design allows cable to be pulled easily from the box with minimum kinking
- Compact box design takes up less shelf space.
- Characterized to 500 Mhz, 250 MHz greater than the standard



Standards

International ISO/IEC 11801

National TIA/EIA-568-B.2

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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	
Field of application	Indoor
Category	Cat. 6
Fire safety	Plenum Rated

Technical Data - Physical

Technical Data - Physical			Color Code		
	23 AWG Bare Copper		Pair-1	White/Blue	Blue
Conductor			Pair-2	White/Orange	Orange
Conductor diameter—in. (mm)	0.023	(0.58)	Pair-3	White/Green	Green
Insulated Conductor Diameter- in. (mm)	0.041	(1.04)	Pair-4	White/Brown	Brown
Cable diameter—in. (mm)	0.224	(5.69)			
Nominal cable weight—lb./kft. (kg/km)	29	(13.2)	Temperature Rating		
Max. installation tension—lb. (N)	25	(110)	Installation	0°C to +50°C	
Min. bend radius—in. (mm)	1	(25.4)	Operation	-20°C to +60°C	

Technical Data - Parametric Measurements

Mutual Capacitance	5.6 nF/100 m max.
DC resistance	9.38 Ohms/100 m max.
Skew	45 ns/100 m max.
Pair to ground Unbalance	330 pF/100 m max.
Velocity of Propagation	72% nom.
DC Resistance Unbalance	5% max.

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Technical Data - Electrical

FREQ MHz	RL (dB)		INSERTION LOSS (dB/100m)		PS-NEXT (dB)		NEXT (dB)		ACR (dB@100m)	
	min.	typical	max.	typical	min.	typical	min.	typical	min.	typical
1	20.0	35.2	2.0	1.7	74.3	87.6	76.3	92.8	74.3	88.7
4	23.0	36.7	3.8	3.5	65.3	76	67.3	86.4	63.5	73.5
10	25.0	36.9	6.0	5.6	59.3	67.4	61.3	73.3	55.3	63.7
16	25.0	39.6	7.6	7.2	56.2	67.6	58.2	76.8	50.6	61.6
20	25.0	40.0	8.5	8.1	54.8	62.8	56.8	70.2	48.3	56.7
31.25	23.6	43.5	10.7	10.1	51.9	59.9	53.9	67.3	43.2	51.3
62.5	21.5	33.5	15.4	14.6	47.4	55.3	49.4	64.2	34.0	41.6
100	20.1	43.9	19.8	18.7	44.3	55.4	46.3	62.9	26.5	37.9
250	17.3	37.6	32.8	30.7	38.3	44.9	40.3	51.2	7.5	16.3
350	16.3	38.0	39.8	36.9	36.1	42.6	38.1	51.4	—	5.0
400	15.9	34.5	43.0	39.6	35.3	38.7	37.3	44.4	—	-0.2
500	15.2	36.2	48.9	45.1	33.8	41.3	35.8	47.2	—	-3.3

Technical Data - Electrical

FREQ Mhz	PS-ACR (dB@100m)		ELFEXT (dB)		PS-ELFEXT (dB)		LCL/TCL (dB)
	min.	typical	min.	typical	min.	typical	min.
1	72.3	85.9	67.8	90.6	64.8	83.8	40.0
4	61.5	72.5	55.8	77.5	52.8	71.8	40.0
10	53.3	61.7	47.8	68.5	44.8	63.0	40.0
16	48.6	60.5	43.7	63.9	40.7	58.5	38.0
20	46.3	54.7	41.8	61.5	38.8	56.1	37.0
31.25	41.2	49.8	37.9	58.4	34.9	51.9	35.1
62.5	32.0	40.7	31.9	59.0	28.9	50.0	62.0
100	24.6	36.6	27.8	49.9	24.8	42.0	30.0
250	5.5	13.5	19.8	40.9	16.8	29.0	26.0
350	—	4.5	16.9	35.0	13.9	25.7	24.6
400	—	-2.6	15.8	32.9	12.8	26.8	24.0
500	—	-6.1	13.8	33.2	10.8	25.8	23.0

Test data above 250 MHz is for engineering information only.

Product List

☎=Make to order, 📦=Make to stock

Part Number	Description	Colour	Packaging
📦 10136231	NEW LANmark-6 UTP Plenum	Grey	Reel
📦 10132983	NEW LANmark-6 UTP Plenum	Grey	Box
📦 10136233	NEW LANmark-6 UTP Plenum	Blue	Reel
📦 10136226	NEW LANmark-6 UTP Plenum	Blue	Box

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Part Number	Description	Colour	Packaging
☒ 10136265	NEW LANmark-6 UTP Plenum	White	Reel
☒ 10136230	NEW LANmark-6 UTP Plenum	White	Box
☒ 10136749	NEW LANmark-6 UTP Plenum	Yellow	Box
☒ 10136751	NEW LANmark-6 UTP Plenum	Yellow	Reel
☒ 10137364	NEW LANmark-6 UTP Plenum	Violet	Box
☒ 10177147	NEW LANmark-6 UTP Plenum	Pink	Reel
☒ 10136748	NEW LANmark-6 UTP Plenum	Green	Box
☒ 10136750	NEW LANmark-6 UTP Plenum	Green	Reel
☒ 10137365	NEW LANmark-6 UTP Plenum	Red	Box
☒ 10141073	NEW LANmark-6 UTP Plenum	Orange	Box
☒ 10188830	NEW LANmark-6 UTP Plenum	Black	Box
☒ 10188807	NEW LANmark-6 UTP Plenum	Black	Reel

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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.