

NEW LANmark-6 Category 6 UTP Riser

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 polyethylene. 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:

Riser - UL1666, CMR IEC 332-1

UL Listed

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

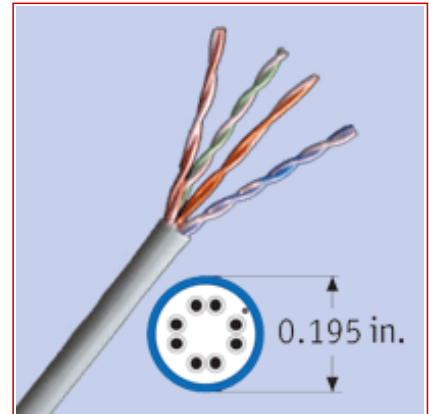
- | | | |
|---------------|-------------|----------|
| • IEEE 802.3 | 1000BASE-T | 1 Gb/s |
| • TIA/EIA-854 | 1000BASE-TX | 1 Gb/s |
| • ATM | 155 Mb/s | 155 Mb/s |
| • IEEE 802.3 | 100BASE-TX | 100 Mb/s |
| • CDDI | | 100 Mb/s |
| • IEEE 802.3 | 10BASE-T | 10 Mb/s |

Features

- Inexpensive compact design with no center spline and an OD of 0.195 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

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	Riser Rated

Product List

☎=Make to order, 📦=Make to stock

Part Number	Description	Colour	Packaging
📦 10136341	NEW LANmark-6 UTP Riser	Grey	Reel
📦 10136338	NEW LANmark-6 UTP Riser	Grey	Box
📦 10136342	NEW LANmark-6 UTP Riser	Blue	Reel
📦 10136339	NEW LANmark-6 UTP Riser	Blue	Box
📦 10136343	NEW LANmark-6 UTP Riser	White	Reel
📦 10136340	NEW LANmark-6 UTP Riser	White	Box
📦 10136775	NEW LANmark-6 UTP Riser	Yellow	Reel
📦 10136753	NEW LANmark-6 UTP Riser	Yellow	Box
📦 10170932	NEW LANmark-6 UTP Riser	Black	Box
📦 10136774	NEW LANmark-6 UTP Riser	Green	Reel
📦 10136752	NEW LANmark-6 UTP Riser	Green	Box
📦 10170931	NEW LANmark-6 UTP Riser	Red	Box
📦 10189773	NEW LANmark-6 UTP Riser	Orange	Box

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Technical Data - Physical

Technical Data - Physical			Color Code		
Conductor	23 AWG Bare Copper		Pair-1	White/Blue	Blue
Conductor diameter—in. (mm)	0.022	(0.56)	Pair-2	White/Orange	Orange
Insulated Conductor Diameter- in. (mm)	0.039	(0.99)	Pair-3	White/Green	Green
Cable diameter—in. (mm)	0.195	(5.0)	Pair-4	White/Brown	Brown
Nominal cable weight—lb./kft. (kg/km)	23	(34)	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 +75°C	

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Technical Data - Parametrics

Mutual Capacitance	5.6 nF/100 m nom.
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	70% nom.
DC Resistance Unbalance	5% max.

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.

Contact

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berktek.support@nexans.com

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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.