LANmark-6 Category 6 UTP Plenum

LANmark-6 is an ANSI/TIA/EIA category 6 verified cable, ideal for communication network applications capable to gigabit network applications. Lanmark-6 is capable of transmitting applications such as 1000BASE-T and 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 FEP. 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

Flame Rating: Plenum -NFPA 262, CMP

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

- IEEE 802.3 1000BASE-T, 100BASE-TX, 10BASE-T
- ANSI X3.263 100 Mb/s
- 1000BASE-TX (ANSI/TIA/EIA-854-2001)

Features

- Inexpensive compact design
- 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

- Provides Category 6 performance
- Cost effective entry level category 6 solution
- Provides additional usable bandwidth required for future applications
- Superior box design allows cable to be pulled easily from the box with minimum kinking
- Compact box design takes up less shelf space.
- Clearly identified packaging eliminates potential confusion

Standards

National TIA/EIA-568-B.2

Contact

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All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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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

Color Code

Pair-1	White/Blue	Blue
Pair-2	White/Orange	Orange
Pair-3	White/Green	Green
Pair-4	White/Brown	Brown

Parametric Measurements

	HORIZONTAL
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	72% nom.

Temperature Rating

Installation	0°C to +50°C
Operation	-10°C to +60°C

Technical Data - Physical

	CMP	
Conductor diameter-in. (mm)	0.022	(0.56)
Cable diameter-in. (mm)	0.22	(5.6)
Nominal cable weight-lb./kft. (kg/km)	28	(41.3)
Max. installation tension-lb. (N)	25	(110)
Min. bend radius-in. (mm)	1	(25.4)

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Technical Data - Electrical

FREQ	RL	INSERTION LOSS	PS-NEXT	NEXT	ACR
	(dB)	(dB/100m)	(dB)	(dB)	(dB@100m)
MHz	min.	max.	min.	min.	min.
1	20.0	2.0	72.3	74.3	72.3
4	23.0	3.8	63.3	65.3	61.5
10	25.0	6.0	57.3	59.3	53.3
16	25.0	7.6	54.3	56.3	48.7
20	25.0	8.5	52.8	54.8	46.3
31.25	23.6	10.7	49.9	51.9	41.2
62.5	21.5	15.4	45.4	47.4	32.0
100	20.1	19.8	42.3	44.3	24.5
250	17.3	32.8	36.3	38.3	5.5
350	16.3	39.8	34.2	36.2	-
400	15.9	43.0	33.3	35.3	-
500	15.2	48.9	31.8	33.8	-
FREQ	PS-ACR	ELFEXT	PS-ELFEXT	LCL/TCL	Prop. Delay
	(dB@100m)	(dB)	(dB)	(dB@100m)	(ns@100m)
MHz	min.	min.	min.	min.	min.
1	70.3	67.8	64.8	40.0	570
4	59.3	55.7	52.7	40.0	552
10	51.3	47.8	44.8	40.0	545
16	46.7	43.7	40.7	38.0	543
20	44.3	41.7	38.7	37.0	542
31.25	39.2	37.9	34.9	35.1	539
62.5	29.9	31.8	28.8	32.0	538
100	22.5	27.8	24.8	30.0	537
250	3.5	19.8	16.8	26.0	536
350	-	16.9	13.9	24.6	536
400	-	15.7	12.7	24.0	536
500	-	13.8	10.8	23.0	536

IMPORTANT: Berk-Tek performance guarantees are based on swept-frequency testing and apply to all frequencies for the entire specified frequency range and are not limited to the tables of data shown which are presented to demonstrate our guarantees at "representative" frequencies. Values above 250 MHz are for engineering information. limited combustible version also available. Other jacket colors available.

Product List

Berk-Tek P/N	Description	Colour	Packaging
10119943	LANmark-6 UTP Plenum	Grey	Reel
10119944	LANmark-6 UTP Plenum	Grey	Box
10119946	LANmark-6 UTP Plenum	White	Reel
10119947	LANmark-6 UTP Plenum	White	Box
10119950	LANmark-6 UTP Plenum	Yellow	Reel

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Berk-Tek P/N	Description	Colour	Packaging
10119951	LANmark-6 UTP Plenum	Yellow	Box
10119953	LANmark-6 UTP Plenum	Blue	Reel
10119954	LANmark-6 UTP Plenum	Blue	Box
10119956	LANmark-6 UTP Plenum	Green	Reel
10119957	LANmark-6 UTP Plenum	Green	Box

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