

Berk-Tek LANmark-6 FTP Plenum Category 6 F/UTP



Berk-Tek's LANmark-6 FTP is the first independently verified Category 6 F/UTP cable. It is ideal for applications that require the most advanced cable performance and the additional signal isolation advantages of an F/UTP design. LANmark-6 FTP is also the first FTP cable to set requirements for cable balance, the performance parameter which affects cable emissions and protects the network from the damaging effects of outside noise sources such as alien crosstalk.

DESCRIPTION

Berk-Tek LANmark-6 FTP, Performance Guaranteed

Your business demands continuous performance from your IT network, so our specifications aren't simply numbers on the page. They define the way that we do business. This means that you are **guaranteed** industry-leading performance and quality for all Berk-Tek products.

Some other manufacturers talk about "typical" values, at Berk-Tek, we hold ourselves to a higher standard. We won't talk about typicals, we talk about what is true, guaranteed, and independently verified.

Keep your business running by relying on Berk-Tek.

Perform Beyond Expectations... Choose Berk-Tek.

Construction:

23 AWG, bare copper wire insulated with FEP. Two insulated conductors twisted together to form a pair and four pairs laid up to form the basic unit. The cable is shielded with an overall polyester/aluminum foil with a 26 AWG stranded tinned copper drain wire and jacketed in flame-retardant PVC.

Flame Rating:

- Plenum: NFPA 262, CMP
- ETL Listed

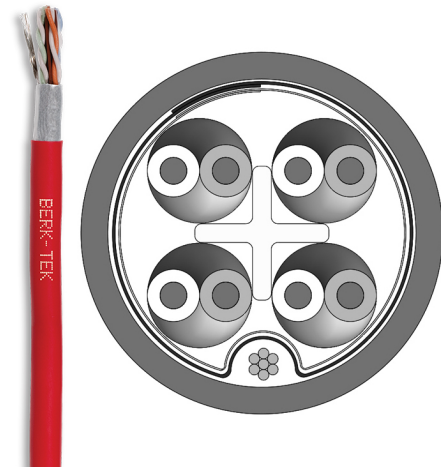
Features:

- ETL verified to ANSI/TIA-568.2-D Category 6
- Can be used with RJ-45 style F/UTP connectivity
- RoHS Compliant

Benefits:

- Increased signal isolation prevents contaminant noise from entering cabling system
- Lower bit errors resulting in increased network performance

PROUDLY MADE IN THE USA



STANDARDS

International ISO/IEC 11801

National ANSI/TIA 568.2-D;
UL 444

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CHARACTERISTICS











Dimensional characteristics



Length per reel	1000.0 ft
Number of pairs	4

Usage characteristics

Packaging	Reel
Field of application	Indoor
Category	Cat. 6
Fire safety	CMP - Plenum Rated
Recommended installation temperature range	0 .. 50 °C
Recommended operating temperature range	-20 .. 75 °C

PRODUCT LIST

Part Number	Description	Colour
 10057903	LANmark-6 FTP Plenum	Grey
 10063671	LANmark-6 FTP Plenum	Red
 10081254	LANmark-6 FTP Plenum	Violet
 10089751	LANmark-6 FTP Plenum	Green
 10095838	LANmark-6 FTP Plenum	Orange
 10062608	LANmark-6 FTP Plenum	Yellow
 10063672	LANmark-6 FTP Plenum	Black
 10081255	LANmark-6 FTP Plenum	White
 10091131	LANmark-6 FTP Plenum	Blue
 10188336	LANmark-6 FTP Plenum	Pink

 = Make to order,  = In stock

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LANMARK-6 FTP PLENUM - TECHNICAL INFORMATION

Electrical Characteristics

FQ = Frequency (MHz) / TIA = TIA Spec / PG = Product Guarantee

FQ	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACRF (dB)	LCL/TCL
	TIA / PG	TIA / PG	TIA / PG	TIA / PG	PG
1	20.00 / 20.00	74.30 / 74.30	72.30 / 72.30	67.80 / 67.80	40.00
4	23.00 / 23.00	65.30 / 65.30	63.30 / 63.30	55.80 / 55.70	40.00
10	25.00 / 25.00	59.30 / 59.30	57.30 / 57.30	47.80 / 47.80	40.00
16	25.00 / 25.00	56.20 / 56.30	54.20 / 54.30	43.70 / 43.70	38.00
20	25.00 / 25.00	54.80 / 54.80	41.80 / 52.80	41.80 / 41.70	37.00
31.25	23.60 / 23.60	51.90 / 51.90	49.90 / 49.90	37.90 / 37.90	35.10
62.5	21.50 / 21.50	47.40 / 47.40	45.40 / 45.40	31.90 / 31.80	32.00
100	20.10 / 20.10	44.30 / 44.30	42.30 / 42.30	27.80 / 27.80	30.00
150	18.90 / 18.90	41.70 / 41.70	39.70 / 39.70	24.30 / 24.30	28.20
200	18.00 / 18.00	39.80 / 39.80	37.80 / 37.80	21.80 / 21.70	27.00
250	17.30 / 17.30	38.30 / 38.30	36.30 / 36.30	19.80 / 19.80	26.00
300	— / 16.77*	— / 37.16*	— / 35.16*	— / —	25.20*
350	— / 16.30*	— / 36.20*	— / 34.20*	— / 16.90*	24.60*
400	— / 15.90*	— / 35.30*	— / 33.30*	— / 15.80*	24.00*
500	— / 15.20*	— / 33.80*	— / 31.80*	— / 13.80*	23.00*

FQ	IL (dB/100 m)	ACR (dB/100 m)	PSACR (dB/100 m)	PSACRF (dB/100 m)	EL TCTL
	TIA / PG	TIA / PG	TIA / PG	TIA / PG	PG
1	2.00 / 2.00	72.20 / 72.30	70.30 / 70.30	64.80 / 64.80	35.00
4	3.80 / 3.80	61.50 / 61.50	59.50 / 59.50	52.80 / 52.70	23.00
10	6.00 / 6.00	53.40 / 53.40	51.30 / 51.40	44.80 / 44.80	15.00
16	7.60 / 7.60	48.80 / 48.70	46.70 / 46.70	40.70 / 40.70	10.90
20	8.50 / 8.50	46.40 / 46.40	44.30 / 44.30	38.80 / 38.70	9.00
31.25	10.70 / 10.70	41.40 / 41.30	39.20 / 39.20	37.90 / 34.90	—
62.50	15.40 / 15.40	32.40 / 32.00	30.00 / 30.00	28.90 / 28.80	—
100	19.80 / 19.80	25.20 / 24.60	22.50 / 22.50	24.80 / 24.80	—
150	24.70 / 24.60	16.90 / 17.10	14.90 / 15.10	21.30 / 21.30	—
200	29.00 / 29.00	10.80 / 10.90	8.80 / 8.90	18.80 / 18.70	—
250	32.80 / 32.80	7.30 / 5.50	3.50 / 3.50	16.80 / 16.80	—
300	— / 36.43*	— / 0.73*	— / —	— / —	—
350	— / 39.80*	— / —	— / —	13.90 / 13.90*	—
400	— / 15.90*	— / —	— / —	— / 12.80*	—
500	— / 15.20*	— / —	— / —	— / 10.80*	—

*Values provided for reference only

Parametric Measurements

Description

Mutual Capacitance	5.1 nF Ohms/100m max.
DC Resistance	9.38 Ohms/100m max.
Skew	45 ns/100m max.
Pair-to-Ground Unbalance	330 pF/100m max.
Velocity of Propagation	71% nom.
DC Resistance Unbalance	5% max.

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

Supported Category 6 Applications		
Standard	Application	Speed
IEEE 802.3	1000BASE-T	1 Gb/s
ATM	155 Mb/s	155 Mb/s
CDDI		100 Mb/s
IEEE 802.3	100BASE-T	10 Mb/s
IEEE 802.3 af	PoE	1 GB/s
IEEE 802.3 at	PoE+, Type 1 & 2	1 Gb/s
IEEE 802.3bt	PoE++, Type 3 & 4	1 Gb/s

Technical Data - Physical		
Conductor	23 AWG Bare Copper	
Conductor Diameter - in. (mm)	0.022	(0.56)
Insulated Conductor Diameter - in. (mm)	0.042	(1.07)
Cable Diameter - in. (mm)	0.275	(7.0)
Nom. Cable Weight - lb./kft (kg/kft)	39	(17.69)
Max. Installation Tension - lb. (N)	25	(110)
Min. Bend Radius - in. (mm)	2.20	(55.88)

LANMARK-6 FTP PLENUM JACKET LEGEND

"BERK-TEK LANMARK-6 FTP 23 AWG CMP 90C C(ETL)US --- ETL VERIFIED TIA-568.2-D CAT 6 [DATE]
[COUNTER] FT"

SELLING INFORMATION

PLEASE NOTE: In the interest of product improvement, Berk-Tek 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.