

**Contact**

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**LANmark-10G FTP Plenum Category 6A, F/UTP**  
LANmark-10G FTP Plenum  
Part Number: 10143424

Berk-Tek's LANmark-10G FTP is ideal for applications that require the most advanced cable performance and the additional signal isolation advantages of an F/UTP design. The Berk-Tek design incorporates one overall foil shield rather than individually shielding each twisted pair. Having one overall shield reduces the time need for cable termination, results in a smaller outside diameter and reduces material costs.

**Description**

**Berk-Tek LANmark-10G 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 with varying lays 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 stranded tinned copper drain wire and ripcord and jacketed in flame-retardant PVC.

**Flame Rating:**

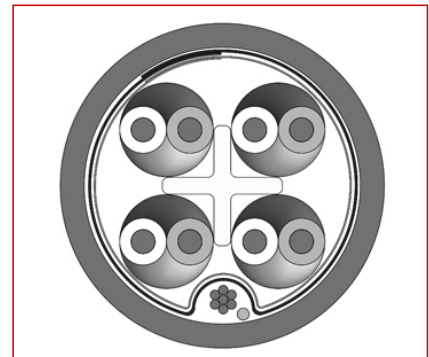
- Plenum-NFPA 262, CMP
- ETL Listed

**Features:**

- Outstanding signal isolation
- Superior alien crosstalk performance
- RoHS Compliant

**Benefits:**

- Increased signal isolation prevents contaminant noise from entering cabling system
- Completely compliant with IEEE requirements
- Lower bit errors resulting in increased network performance



**Standards**

**National ANSI/TIA-568-C.2; UL 444**

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**Characteristics**

<b>Construction characteristics</b>	
Type of cable	FTP
Colour	Blue
<b>Dimensional characteristics</b>	
Length per reel	1000.0 ft
Number of pairs	4
<b>Usage characteristics</b>	
Packaging	Reel
Field of application	Indoor
Category	Cat. 6a
Fire safety	CMP - Plenum Rated

## LANmark-10G FTP Plenum Category 6A, F/UTP

LANmark-10G FTP Plenum

Part Number: 10143424

### LANmark-10G FTP Parametric Data: Electrical

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

FQ	RL (dB)		NEXT (dB)		PSNEXT (dB)		ACRF (dB)		PSANEXT (dB)		LCL/TCL
	TIA / PG	TIA / PG	TIA / PG	TIA / PG	TIA / PG	TIA / PG	TIA / PG	TIA / PG	TIA / PG		
1	20.00 / 20.00	74.30 / 74.30	72.30 / 72.30	67.80 / 67.80	67.00 / 67.00	50.00					
4	23.00 / 23.00	65.30 / 65.30	63.30 / 63.30	55.80 / 55.70	67.00 / 67.00	44.00					
10	25.00 / 25.00	59.30 / 59.30	57.30 / 57.30	47.80 / 47.80	67.00 / 67.00	40.00					
16	25.00 / 25.00	56.20 / 56.30	54.20 / 54.30	43.70 / 43.70	67.00 / 67.00	38.00					
20	25.00 / 25.00	54.80 / 54.80	52.80 / 52.80	41.80 / 41.70	67.00 / 67.00	37.00					
31.25	23.60 / 23.60	51.90 / 51.90	49.90 / 49.90	37.90 / 37.90	67.00 / 67.00	35.10					
62.5	21.50 / 21.50	47.40 / 47.40	45.40 / 45.40	31.90 / 31.80	65.60 / 65.60	32.00					
100	20.10 / 20.10	44.30 / 44.30	42.30 / 42.30	27.80 / 27.80	62.50 / 62.50	30.00					
250	17.30 / 17.30	38.30 / 38.30	36.30 / 36.30	19.80 / 19.80	56.50 / 56.50	26.00					
350	16.30 / 16.30	36.10 / 36.20	34.10 / 34.20	16.90 / 16.90	— / 54.30	24.60					
400	15.90 / 15.90	35.30 / 35.30	33.30 / 33.30	15.80 / 15.70	53.50 / 53.40	24.00					
500	15.20 / 15.20	33.80 / 33.80	31.80 / 31.80	13.80 / 13.80	52.00 / 52.00	23.00					
600	— / 14.70*	— / 32.60*	— / 30.60*	— / 12.20*	— / 50.80*	22.20*					
750	— / 14.00*	— / 31.20*	— / 29.20*	— / 10.30*	— / 49.30*	21.20*					

FQ	IL (dB/100 m)		ACR (dB/100 m)		PSACR (dB/100 m)		PSACRF (dB/100 m)		PSAACRF (dB)		EL TCTL
	TIA / PG	TIA / PG	TIA / PG	TIA / PG	TIA / PG	TIA / PG	TIA / PG	TIA / PG	TIA / PG		
1	2.10 / 2.10	72.20 / 72.20	70.20 / 70.20	64.80 / 64.80	67.00 / 67.00	35.00					
4	3.80 / 3.80	61.50 / 61.50	59.50 / 59.50	52.80 / 52.70	66.20 / 66.20	23.00					
10	5.90 / 5.90	53.40 / 53.40	51.40 / 51.40	44.80 / 44.80	58.20 / 58.20	15.00					
16	7.50 / 7.50	48.80 / 48.80	46.80 / 46.80	40.70 / 40.70	54.10 / 54.10	10.90					
20	8.40 / 8.40	46.40 / 46.40	44.40 / 44.50	38.80 / 38.70	52.20 / 52.20	9.00					
31.25	10.50 / 10.50	41.40 / 41.50	39.40 / 39.50	34.90 / 34.90	48.30 / 48.30	—					
62.50	15.00 / 15.00	32.40 / 32.40	30.40 / 30.40	28.90 / 28.80	42.30 / 42.30	—					
100	19.10 / 19.10	25.20 / 25.30	23.20 / 23.20	24.80 / 24.80	38.20 / 38.20	—					
250	31.10 / 31.10	7.30 / 7.30	5.30 / 5.30	16.80 / 16.80	30.20 / 30.20	—					
350	37.20 / 37.20	-1.10 / -0.90	-3.10 / —	13.90 / 13.90	26.20 / 27.30	—					
400	40.10 / 40.10	-4.80 / -4.50	-6.80 / —	12.80 / 12.70	26.20 / 26.20	—					
500	45.30 / 45.30	-11.40 / -11.40	-13.4 / —	10.80 / 10.80	24.20 / 24.20	—					
600	— / 50.10*	— / -17.40	— / —	— / 9.20*	— / 22.60*	—					
750	— / 56.70*	— / -25.50	— / —	— / 7.30*	— / 20.70*	—					

\*Values provided for reference only

### LANmark-10G FTP Plenum UTP Physical Data

Technical Data - Physical			Color Code		
Conductor	23 AWG Bare Copper		Pair-1	White	Blue
Conductor diameter - in. (mm)	0.023	(0.58)	Pair-2	White	Orange
Insulated conductor dia.-in.(mm)	0.046	(1.04)	Pair-3	White	Green
Cable diameter - in. (mm)	0.280	(7.112)	Pair-4	White	Brown
Nom. cable wt.-lb./kft. (kg/kft)	40	(18.14)	Temperature Rating (degrees C)		
Max. installation tension - lb. (N)	25	(110)	Installation	0 to +50	
Min. bend radius - in. (mm)	1.12	(28.45)	Operation	-20 to +75	

### LANmark-10G FTP Plenum Technical Data - Parametric Measurements

Mutual Capacitance	5.6 nF/100 m max.	Pair to Ground Unbalance	330 pF/100 m max.
DC Resistance	9.38 Ohms/100 m max.	Velocity of Propagation	68% nom.

## LANmark-10G FTP Plenum Category 6A, F/UTP

LANmark-10G FTP Plenum

<b>Skew</b>	45 ns/100 m max.	<b>DC Resistance unbalance</b>	4% max.
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### Supported CAT 6a Applications

STANDARD	APPLICATION	SPEED
IEEE 802.3an	10GBASE-T	10 Gb/s
IEEE 802.3	1000BASE-T	1 Gb/s
TIA/EIA 854	1000BASE-TX	1 Gb/s
ATM	155 Mb/s	155 Mb/s
CDDI		100 Mb/s
IEEE 802.3	10BASE-T	10 Mb/s
IEEE 802.3 af	PoE	1 Gb/s
IEEE 802.3 at	PoE+, Type 1 & 2	1 Gb/s

### LANmark-10G FTP Plenum Jacket Legend

BERK-TEK LANMARK-10G FTP 23 AWG CMP 75C C(UL)US --- ETL VERIFIED TIA-568-C.2 CAT 6A [DATECODE] [SEQ#] FT

### Selling 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.