

Berk-Tek LANmark-10G FTP Riser Category 6A, F/UTP



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 needed for cable termination, provides a smaller outside diameter and reduces 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 PE. 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 26 AWG stranded tinned copper drain wire and ripcord and jacketed in polymer alloy.

Flame Rating:

- Riser-NFPA 70
- UL listed CMR-LP (0.5A)

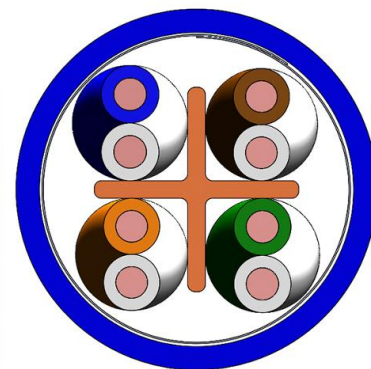
Features:

- ETL verified to ANSI/TIA-568.2-D Category 6A
- 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

Country of Origin: 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. 6A
Fire safety	CMR - Riser Rated

PRODUCT LIST

Part Number	Description	Colour
 10189092	LANmark-10G FTP Category 6a, F/UTP Riser	Green
 10189567	LANmark-10G FTP Category 6a, F/UTP Riser	Blue
 10189798	LANmark-10G FTP Category 6a, F/UTP Riser	Grey
 10189803	LANmark-10G FTP Category 6a, F/UTP Riser	Yellow
 10189801	LANmark-10G FTP Category 6a, F/UTP Riser	White
 10189804	LANmark-10G FTP Category 6a, F/UTP Riser	Red
 11077196	LANmark-10G FTP Category 6a, F/UTP Riser	Black

 = Make to order,  = In stock

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LANMARK-10G FTP PARAMETRIC DATA: ELECTRICAL

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

	RL (dB)		NEXT (dB)		PSNEXT (dB)		ACRF (dB)		PSANEXT (dB)		LCL/TCL
FQ	TIA	PG	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	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*
	IL (dB/100 m)		ACR (dB/100 m)		PSACR (dB/100 m)		PSACRF (dB/100 m)		PSAACRF (dB)		EL TCTL
FQ	TIA	PG	TIA	PG	TIA	PG	TIA	PG	TIA	PG	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 RISER UTP PHYSICAL DATA

Technical Data - Physical			Color Code		
Conductor	23 AWG Bare Copper		Pair-1	White	Blue
Conductor diameter - in. (mm)	0.022	(0.58)	Pair-2	White	Orange
Insulated conductor dia.-in.(mm)	0.044	(1.04)	Pair-3	White	Green
Cable diameter - in. (mm)	0.290	(7.36)	Pair-4	White	Brown
Nom. cable wt.-lb./kft. (kg/kft)	35	(15.87)	Temperature Rating (degrees C)		
Max. installation tension - lb. (N)	25	(110)	Installation	0 to +50	
Min. bend radius - in. (mm)	1.20	(25.4)	Operation	-20 to +75	

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LANMARK-10G FTP RISER TECHNICAL DATA - PARAMETRIC MEASUREMENTS

Mutual Capacitance	5.1 nF/100 m max.	Pair to Ground Unbalance	330 pF/100 m max.
DC Resistance	9.38 Ohms/100 m max.	Velocity of Propagation	66% nom.
Skew	45 ns/100 m max.	DC Resistance unbalance	4% max.

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

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.

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