

Berk-Tek LANmark-10G FTP Plenum 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 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 with flame-retardant polymer alloy.

Flame Rating:

- Plenum-NFPA 262, CMP
- UL Listed as CMP-LP (0.7A)

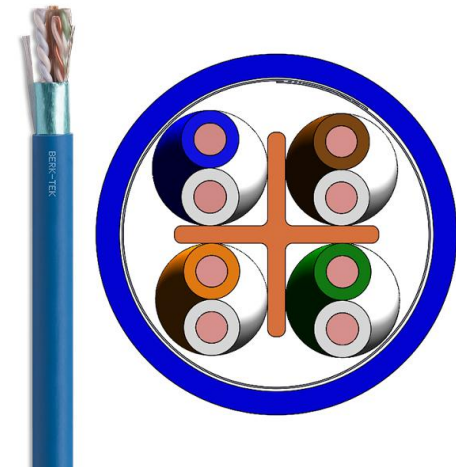
Features:

- 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

Country of Origin: USA



STANDARDS

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

Field of application	Indoor
Fire safety	CMP - Plenum Rated
Recommended operating temperature range	-20 .. 105 °C

PRODUCT LIST

Part Number	Description	Colour	Packaging	Category
☎ 10143424	LANmark-10G FTP Plenum	Blue	Reel	Cat. 6A
☎ 10167485	LANmark-10G FTP Plenum	White	Reel	Cat. 6A
📦 10167487	LANmark-10G FTP Plenum	Grey	Reel	Cat. 6A
☎ 10167488	LANmark-10G FTP Plenum	Yellow	Reel	Cat. 6A
☎ 10189246	LANmark-10G FTP Plenum	Green	Reel	Cat. 6A
☎ 10189547	LANmark-10G FTP Plenum	Pink	Reel	Cat. 6A
☎ 10188969	LANmark-10G FTP Plenum	Red	Reel	Cat. 6A
☎ 10189549	LANmark-10G FTP Plenum	Black	Reel	Cat. 6A
☎ 10189548	LANmark-10G FTP Plenum	Violet	Reel	Cat. 6A
☎ 10189550	LANmark-10G FTP Plenum	Orange	Reel	Cat. 6A

☎ = Make to order, 📦 = In stock

LANMARK-10G FTP - TECHNICAL INFORMATION

Electrical Characteristics

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	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	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	—	-0.90	—	—	13.90	13.90	26.20	27.30	—
400	40.10	40.10	—	-4.50	—	—	12.80	12.70	26.20	26.20	—
500	45.30	45.30	—	-11.40	—	—	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

** Values for ACR are provided as calculations

Parametric Measurements

Description

Mutual Capacitance	5.1 nF/100m nominal at 1 kHz
DC Resistance	9.38 Ohms/100m max.
Skew	45 ns/100m max.
Pair-to-Ground Unbalance	330 pF/100m max.
Velocity of Propagation	70% nom.
DC Resistance Unbalance	4% 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 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 802.3af	PoE	1 Gb/s
IEEE 802.3at	PoE+, Type 1 & 2	1 Gb/s
IEEE 802.3bt	PoE++, Type 3 & 4	10 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	(6.985)
Nom. Cable Weight - lb./kft (kg/kft)	39	(17.69)
Max. Installation Tension - lb. (N)	25	(110)
Min. Bend Radius - in. (mm)	2.20	(27.94)

LANMARK-10G FTP PLENUM JACKET LEGEND

BERK-TEK LANMARK-10G FTP 23 AWG CMP 105C C(UL)US CMP-LP (0.7A) --- ETL
VERIFIED TIA-568.2-D CAT 6A [PATENT] [DATE] [COUNTER] [UID]

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.