

Contact

Copper LAN Product Inquiry
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LANmark-10G FTP Plenum Category 6a, F/UTP
LANmark-10G FTP Plenum
Part Number: 10167487

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

Before any cable can display the **Berk-Tek LANmark-10G FTP** legend, it must pass factory tests with **a minimum margin of 2dB on NEXT & PSNEXT and 4dB on ACRF and PSACRF**. If the margin is missing, so is the legend. That is our guarantee to you.

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.

Berk-Tek ...Because Your Business Runs Through Us.

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:

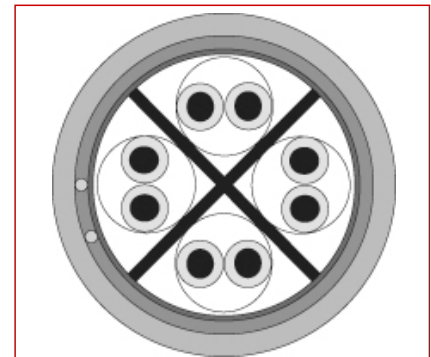
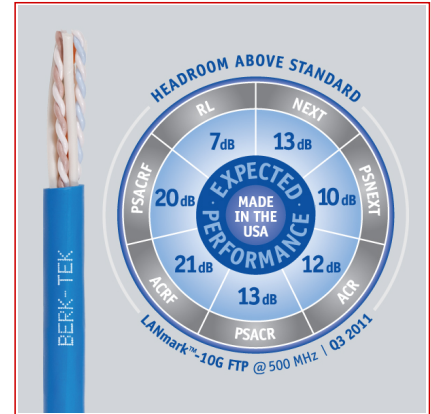
- Plenum-NFPA 262
- ETL Listed

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

International ISO/IEC 11801

National ANSI/TIA-568-C.2

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Characteristics

Construction characteristics	
Type of cable	FTP
Colour	Grey
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	Plenum Rated

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LANmark-10G FTP Parametric Data: Electrical

FREQ MHz	RL (dB)			NEXT (dB)			PSNEXT (dB)		
	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance
1	20.0	20.0	30.9	74.3	76.3	91.2	72.3	74.3	87.5
4	23.0	23.0	33.7	65.3	67.3	80.8	63.3	65.3	76.5
10	25.0	25.0	33.7	59.3	61.3	74.8	57.3	59.3	70.3
16	25.0	25.0	34.0	56.2	58.3	71.3	54.2	56.3	66.9
20	25.0	25.0	33.6	54.8	56.8	69.8	52.8	54.8	65.6
31.25	23.6	23.7	33.2	51.9	53.9	67.2	49.9	51.9	62.9
62.5	21.5	21.5	30.8	47.4	49.4	62.7	45.4	47.4	58.4
100	20.1	20.1	29.6	44.3	46.3	59.6	42.3	44.3	55.7
150	18.9	18.9	27.8	41.7	43.7	57.1	39.7	41.7	53.4
200	18.0	18.0	27.0	39.8	41.8	55.4	37.8	39.8	51.5
250	17.3	17.3	25.4	38.3	40.4	53.6	36.3	38.4	49.6
300	16.8	16.8	25.4	37.1	39.2	52.6	35.1	37.2	48.5
350	16.3	16.3	24.6	36.1	38.2	50.5	34.1	36.2	47.0
400	15.9	15.9	23.7	35.3	37.3	49.6	33.3	35.3	45.5
450	15.5	15.5	23.0	34.5	36.5	47.7	32.5	34.5	43.2
500	15.2	15.2	22.5	33.8	35.8	46.5	31.8	33.8	42.2
FREQ MHz	IL (dB/100m)			ACR (dB/100m)			PSACR (dB/100m)		
	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance
1	2.1	2.1	1.8	72.7	72.2	87.0	70.7	70.2	85.6
4	3.8	3.8	3.5	61.8	61.5	74.0	59.8	59.5	73.0
10	5.9	5.9	5.4	53.7	53.4	66.0	51.7	51.4	64.7
16	7.5	7.5	6.9	49.2	48.8	61.2	47.2	46.8	59.9
20	8.4	8.4	7.7	46.9	46.5	59.3	44.9	44.5	57.8
31.25	10.5	10.5	9.7	42.0	41.5	54.7	40.0	39.5	53.2
62.5	15.0	15.0	13.8	33.6	32.4	45.3	31.6	30.4	44.3
100	19.1	19.1	17.6	27.0	25.3	39.2	25.0	23.3	37.7
150	23.7	23.6	21.7	20.8	18.1	32.3	18.8	16.1	31.1
200	27.6	27.6	25.3	15.9	12.3	26.9	13.9	10.3	25.5
250	31.1	31.0	28.4	11.8	7.3	21.9	9.8	5.3	20.5
300	34.3	34.2	31.3	8.4	3.0	17.8	6.4	1.0	16.6
350	37.2	37.1	33.9	5.3	-0.9	13.5	3.3	-2.9	12.2
400	40.1	39.8	36.3	2.5	-4.5	9.5	0.5	-6.5	8.1

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450	42.7	42.6	38.8	0.0	-8.1	4.6	-2.0	-10.1	3.3
500	45.3	45.3	41.1	-2.3	-11.4	1.0	-4.3	-13.4	-0.2

LANmark-10G FTP Parametric Data: Electrical (cont)

FREQ MHz	ACRF (dB/100m)			PSACRF (dB/100m)			LCL/TCL	EL TCTL
	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	Product Guarantee	Product Guarantee
1	67.8	71.8	89.4	64.8	68.8	84.7	40.0	35.0
4	55.8	59.7	77.8	52.8	56.7	73.2	40.0	23.0

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

LANmark-10G FTP Plenum

10	47.8	51.8	70.0	44.8	48.8	65.1	40.0	15.0
16	43.7	47.7	66.0	40.7	44.7	61.3	38.0	10.9
20	41.8	45.8	64.1	38.8	42.8	59.3	37.0	9.0
31.25	37.9	41.9	59.8	34.9	38.9	55.5	35.1	5.1
62.5	31.9	35.8	53.3	28.9	32.8	49.3	32.0	—
100	27.8	31.8	49.0	24.8	28.8	45.6	30.0	—
150	24.3	28.3	45.8	21.3	25.3	42.1	28.2	—
200	21.8	25.7	44.0	18.8	22.7	40.1	27.0	—
250	19.8	23.8	42.3	16.8	20.8	38.1	26.0	—
300	18.3	22.2	40.1	15.3	19.2	36.6	25.2	—
350	16.9	20.9	38.1	13.9	17.9	34.5	24.6	—
400	15.8	19.8	37.2	12.8	16.8	33.7	24.0	—
450	14.7	18.7	36.1	11.7	15.7	32.2	23.5	—
500	13.8	17.8	34.8	10.8	14.8	31.2	23.0	—

LANmark-10G FTP Plenum UTP Physical Data

Technical Data - Physical			Color Code		
Conductor	23 AWG Bare Copper		Pair-1	White/Blue	Blue
Conductor diameter - in. (mm)	0.023	(0.58)	Pair-2	White/Orange	Orange
Insulated conductor dia.-in.(mm)	0.046	(1.04)	Pair-3	White/Green	Green
Cable diameter - in. (mm)	0.280	(5.69)	Pair-4	White/Brown	Brown
Nom. cable wt.-lb./kft. (kg/km)	40	(13.2)	Temperature Rating (degrees C) Installation 0 to +50 Operation -20 to +60		
Max. installation tension - lb. (N)	25	(110)			
Min. bend radius - in. (mm)	1.12	(25.4)			

LANmark-10G FTP Plenum Technical Data - Parametric Measurements

Mutual Capacitance	5.6 nF/100 m max.
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.
DC Resistance unbalance	5% 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

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LANmark-10G FTP Plenum

IEEE 802.3

10 BASE-T

10 Mb/s

Selling delivery 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.