

Contact

Copper LAN Product Inquiry
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LANmark-6 FTP Plenum Category 6 F/UTP

LANmark-6 FTP Plenum

Part Number: 10057903

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 24 AWG stranded tinned copper drain wire and jacketed in flame-retardant PVC.

Flame Rating:

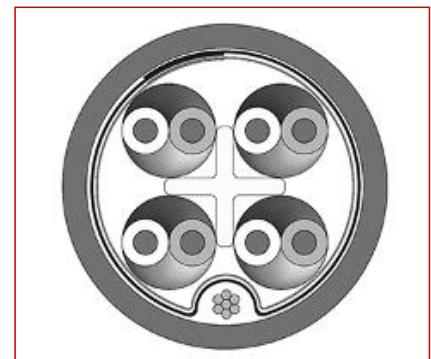
- Plenum: NFPA 262, CMP
- ETL Listed

Features:

- ETL verified to TIA/EIA-568-C.2 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



Standards

International ISO/IEC 11801

National ANSI/TIA-568-c.2 Category 6; UL 444

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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. 6
Fire safety	CMP - Plenum Rated

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LANmark-6 FTP Parametric Data: Electrical

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	55.80	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	41.80	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	31.90	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*

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	52.80	23.00
10	6.00	6.00	53.40	53.40	51.30	52.40	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	44.40	38.80	38.80	9.00
31.25	10.70	10.70	41.40	41.30	39.20	39.30	37.90	34.90	—
62.50	15.40	15.40	32.40	32.00	30.00	30.00	28.90	28.90	—
100	19.80	19.80	25.20	24.60	22.50	22.60	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*	—	-1.27*	—	—	—
350	—	39.80*	—	-3.63*	—	-5.63*	13.90	13.90*	—

*Values provided for reference only

LANmark-6 FTP Plenum UTP Physical Data

Technical Data - Physical			Color Code		
Conductor	23 AWG Bare Copper		Pair-1	White/Blue	Blue
Conductor diameter - in. (mm)	0.022	(0.56)	Pair-2	White/Orange	Orange
Insulated conductor dia.-in.(mm)	0.045	(1.14)	Pair-3	White/Green	Green
Cable diameter - in. (mm)	0.285	(7.24)	Pair-4	White/Brown	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)	2.28	(72.39)	Operation	-20 to +75	

LANmark-6 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	71% nom.

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Skew	45 ns/100 m max.	DC Resistance unbalance	5% max.
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Supported Category 6 Applications

STANDARD	APPLICATION	SPEED
IEEE 802.3	1000BASE-T	1 Gb/s
TIA/EIA-854	1000BASE-TX	1 Gb/s
ATM	155Mb/s	155 Mb/s
IEEE 802.3	100BASE-TX	100 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-6 FTP Plenum Jacket Legend

BERK-TEK LANMARK-6 FTP 23 AWG CMR 75C C(UL)US ETL VERIFIED TIA-568-C.2 CAT 6 [ANY APPLICABLE PATENTS] [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.
155 Mb/s