

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. Berk-Tek LANmark-6 FTP F/UTP cable to set requirements for cable balance.

## DESCRIPTION

### Construction:

26 AWG, stranded, 7/34 tinned copper wire insulated with polyolefin. 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 26 AWG stranded tinned copper drain wire and jacketed in flame-retardant PVC.

### Standards:

- North American: ANSI/TIA-568.2-D Category 6, UL 444 and C22.2 No.214-02
- International: ISO/IEC 11801-2nd Edition Category 6, EU Directive 2011/65/EC (RoHS)

### Flame Rating:

- Patch: UL 1581, CM
- UL Listed

### Features:

- ETL verified to ANSI/TIA-568.2-D Category 6
- Can be used with RJ-45 style F/UTP connectivity

### Benefits:

- Increased signal isolation prevents contaminant noise from entering cabling system
- Lower bit errors resulting in increased network performance

## PROUDLY MADE IN THE USA

## CHARACTERISTICS

### Construction characteristics

Type of cable FTP

### Dimensional characteristics

Length per reel 1000.0 ft

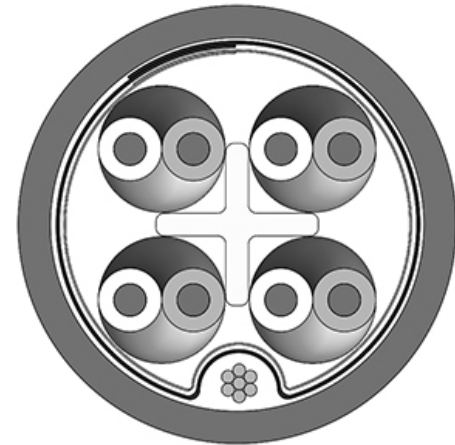
Number of pairs 4

### Usage characteristics

Packaging Reel

Field of application Indoor











Category Cat. 6





## STANDARDS

**National** ANSI/TIA 568.2-D;  
UL 444

## PRODUCT LIST

Part Number	Description	Colour	Fire safety
 10096091	LANmark-6 FTP Patch	Grey	CM
 10123966	LANmark-6 FTP Patch	White	CM
 10123967	LANmark-6 FTP Patch	Blue	CM
 10123965	LANmark-6 FTP Patch	Yellow	CM
 10163802	LANmark-6 FTP Patch	Green	CM
 10189259	LANmark-6 FTP Patch	Black	CM
 10189258	LANmark-6 FTP Patch	Red	CM
 11078141	LANmark-6 FTP Patch	Violet	CM
 11030657	LANmark-6 FTP Patch	Orange	CM
 10163801	LANmark-6 FTP Patch	Brown	CM

 = Make to order,  = In stock

## TECHNICAL DATA - PHYSICAL

Technical Data - Physical			Color Code		
			Pair-1	White/Blue	Blue
			Pair-2	White/Orange	Orange
			Pair-3	White/Green	Green
			Pair-4	White/Brown	Brown
			Temperature Rating		
			Installation	0°C to +50°C	
			Operation	-20°C to +75°C	
Conductor	26 AWG Stranded TC				
Conductor diameter—in. (mm)	0.019	(0.48)			
Insulated Conductor Diameter- in. (mm)	0.035	(0.89)			
Cable diameter—in. (mm)	0.230	(5.8)			
Nominal cable weight—lb./kft. (kg/km)	23.00	(30)			
Max. installation tension—lb. (N)	25.00	(110)			
Min. bend radius—in. (mm)	3.00	(76)			

## TECHNICAL DATA - PARAMETRICS

Mutual Capacitance	5.2 nF/100 m max.
DC resistance	14.0 Ohms/100 m max.
Skew	45 ns/100 m max.
Pair to ground Unbalance	330 pF/100 m max.
Velocity of Propagation	66% nom.
DC Resistance Unbalance	5% max.
Transfer Impedance	45 mOhms/m @ 30 MHz
Coupling Attenuation	75 dB @ 30 MHz

## TECHNICAL DATA - ELECTRICAL

FREQ (MHz)	RL (dB)	IL (dB/100m)	PS-NEXT (dB)	NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB)	PS-ELFEXT (dB)	LCL/TCL (dB)	EL TCTL (dB)
	min	max	min	min	min	min	min	min	min	min
1	20	2.8	72.3	74.3	71.5	69.5	67.8	64.8	40	35
4	23	5.5	63.3	65.3	59.8	57.7	55.7	52.7	40	23
10	25	8.8	57.3	59.3	50.5	48.5	47.8	44.8	40	15
16	25	11.3	54.3	56.3	45	43	43.7	40.7	38	10.9
20	25	12.6	52.8	54.8	42.2	40.2	41.7	38.7	37	9
31.25	23.3	16	49.9	51.9	35.9	33.9	37.9	34.9	35.1	--
62.5	20.7	23	45.4	47.4	24.4	22.3	31.8	28.8	32	--
100	19	29.7	42.3	44.3	14.6	12.6	27.8	24.8	30	--
250	15.6	49.3	36.3	38.3	--	--	19.8	16.8	26	--

## 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

## 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.