

## LANmark-6 FTP Patch

LANmark-6 FTP Patch

Part Number: 10096091

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/EIA-568-C.2 Category 6, UL 444 and C22.2 No.214-02
- International: ISO/IEC 11801-2nd Edition Category 6, EU Directive 2002/95/EC (RoHS)

#### Flame Rating:

- Patch: UL 1581, CM
- UL Listed

#### Features:

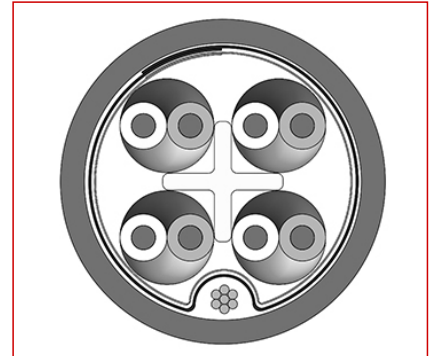
- ETL verified to TIA/EIA-568-B.2 Category 6
- Can be used with RJ-45 style F/UTP connectivity

#### Benefits:

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

### 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	CM



#### Standards

National ANSI/TIA-568-C.2; UL 444

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### Technical Data - Physical

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

### Technical Data - Parametrics

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

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**LANmark-6 FTP Patch**  
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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**

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