

## LANmark-6 FTP Plenum

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:

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.

#### Standards:

- North American: ANSI/TIA/EIA-568-B.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:

- Plenum: NFPA 262, CMP
- ETL Listed

#### Applications:

LANmark-6 FTP cable is intended for high speed data and digital video applications up to 250 MHz including:

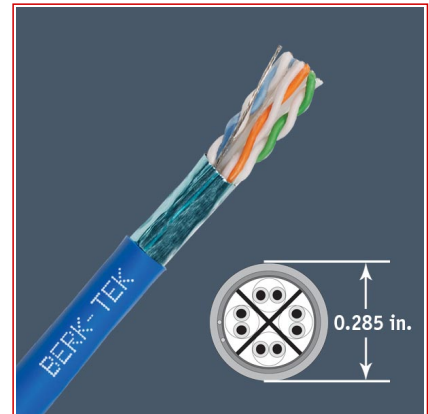
- |              |             |          |
|--------------|-------------|----------|
| • IEEE 802.3 | 1000BASE-T  | 1 Gb/s   |
| • ATM        | 155 Mb/s    | 155 Mb/s |
| • IEEE 802.3 | 1000BASE-TX | 100 Mb/s |
| • CDDI       |             | 100 Mb/s |
| • IEEE 802.3 | 10BASE-T    | 10 Mb/s  |

#### 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



#### Standards

National TIA/EIA-568-B.2

## LANmark-6 FTP Plenum

### Characteristics

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	Plenum Rated

### Technical Data - Physical

Technical Data - Physical			Color Code		
	23 AWG Bare Copper		Pair-1	White	Blue
Conductor			Pair-2	White	Orange
Conductor diameter-in. (mm)	0.022	(0.56)	Pair-3	White	Green
Insulated Conductor Diameter- in. (mm)	0.045	(1.14)	Pair-4	White	Brown
Cable diameter-in. (mm)	0.285	(7.2)			
Nominal cable weight-lb./kft. (kg/km)	41.7	(62)	Temperature Rating		
Max. installation tension-lb. (N)	25	(110)	Installation	0°C to +50°C	
Min. bend radius-in. (mm)	2.28	(57.9)	Operation	-20°C to +60°C	

### Technical Data - Parametric

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	71% nom. Plenum, 68% nom. Riser
DC Resistance Unbalance	5% max.
Transfer Impedance	45 mOhms/m @ 30 MHz
Coupling Attenuation	75 dB @ 30 MHz

## LANmark-6 FTP Plenum

### Technical Data - Electrical

FREQ MHz	RL (dB)		INSERTION LOSS (dB/100m)		PS-NEXT (dB)		NEXT (dB)		ACR (dB@100m)	
	min.	typical	max.	typical	min.	typical	min.	typical	min.	typical
1	20.0	35.5	2.0	1.7	72.3	88.0	74.3	93.9	72.3	89.4
4	23.0	33.1	3.8	3.5	63.3	79.4	65.3	86.8	61.5	77.6
10	25.0	33.2	6.0	5.6	57.3	75.4	59.3	81.1	53.3	72.6
16	25.0	34.4	7.6	7.2	54.2	70.5	56.2	76.8	48.6	66.0
20	25.0	33.0	8.5	8.1	52.8	67.5	54.8	74.0	46.3	62.3
31.25	23.6	36.7	10.7	10.1	49.9	65.6	51.9	72.0	41.2	58.3
62.5	21.5	32.5	15.4	14.6	45.4	60.5	47.4	68.1	32.0	48.7
100	20.1	32.2	19.8	18.7	42.3	59.1	44.3	66.1	24.5	43.7
250	17.3	34.7	32.8	30.7	36.3	52.5	38.3	58.3	5.5	26.2
350	16.3	28.9	39.8	36.9	34.2	46.8	36.2	53.0	--	14.6

### Technical Data - Electrical

FREQ Mhz	PS-ACR (dB@100m)		ELFEXT (dB)		PS-ELFEXT (dB)		LCL/TCL (dB)	EL TCTL (dB)
	min.	typical	min.	typical	min.	typical	min.	min.
1	70.3	86.3	67.8	94.2	64.8	89.8	40.0	35.0
4	59.5	76.1	55.8	85.2	52.7	78.7	40.0	23.0
10	51.3	70.1	47.8	77.0	44.8	70.7	40.0	15.0
16	46.7	63.8	43.7	75.1	40.7	68.4	38.0	10.9
20	44.3	60.0	41.8	72.4	38.7	67.4	37.0	9.0
31.25	39.2	56.2	37.9	72.6	34.9	65.2	35.1	5.5
62.5	30.0	47.0	31.9	67.1	28.9	58.5	32.0	--
100	22.5	41.8	27.8	63.2	24.8	57.0	30.0	--
250	3.5	24.1	19.8	57.1	16.8	49.4	26.0	--
350	--	12.3	16.9	51.4	13.9	43.9	24.6	--

### Product List

☎=Make to order, 📦=Make to stock


Part Number	Description	Colour
📦 10057903	LANmark-6 FTP Plenum	Grey
📦 10063671	LANmark-6 FTP Plenum	Red
📦 10081254	LANmark-6 FTP Plenum	Violet
📦 10089751	LANmark-6 FTP Plenum	Green
📦 10095838	LANmark-6 FTP Plenum	Orange
📦 10062608	LANmark-6 FTP Plenum	Yellow
📦 10063672	LANmark-6 FTP Plenum	Black
📦 10081255	LANmark-6 FTP Plenum	White
📦 10091131	LANmark-6 FTP Plenum	Blue



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**Contact**

Copper LAN Product Inquiry  
Phone: 717-354-6200  
berktek.support@nexans.com

## LANmark-6 FTP Plenum

Part Number	Description	Colour
 10188366	LANmark-6 FTP Plenum	Pink

 = Make to order,  = Make to stock

### Selling delivery information

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