

LANmark-6 FTP Riser

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 cellular polyethylene/skin. 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-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:

- Riser; UL 1666, CMR
- UL Listed

Applications:

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

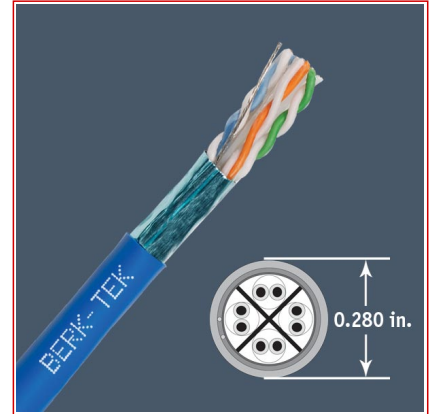
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|--------------|-------------|----------|
| • IEEE 802.3 | 1000BASE-T | 1 Gb/s |
| • ATM | 155 Mb/s | 155 Mb/s |
| • IEEE 802.3 | 1000BASE-TX | 100 Mb/s |
| • CDDI | | 100 Mb/s |
| • IEEE 802.3 | 10BASE-T | 10 Mb/s |

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

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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
Fire safety	Riser Rated

Technical Data - Physical

Technical Data - Physical			Color Code		
Conductor	23 AWG Bare Copper		Pair-1	White	Blue
Conductor diameter—in. (mm)	0.022	(0.56)	Pair-2	White	Orange
Insulated Conductor Diameter- in. (mm)	0.045	(1.14)	Pair-3	White	Green
Cable diameter—in. (mm)	0.28	(7.1)	Pair-4	White	Brown
Nominal cable weight—lb./kft. (kg/km)	41.7	(54)	Temperature Rating		
Max. installation tension—lb. (N)	25	(110)	Installation	0°C to +50°C	
Min. bend radius—in. (mm)	3	(76)	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

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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
📦 10070439	LANmark-6 FTP Riser	Grey
📦 10074212	LANmark-6 FTP Riser	Black
📦 10107572	LANmark-6 FTP Riser	Green
📦 10074211	LANmark-6 FTP Riser	Red
📦 10090687	LANmark-6 FTP Riser	Yellow
📦 10107573	LANmark-6 FTP Riser	Brown
📦 10122951	LANmark-6 FTP Riser	Blue
📦 10122953	LANmark-6 FTP Riser	White

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Contact

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LANmark-6 FTP Riser

Selling delivery information

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