

LANmark-6 FTP Patch

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Contact

Copper LAN Product Inquiry
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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-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:

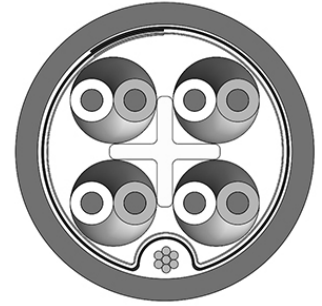
- Patch: UL 1581, CM
- UL Listed

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



STANDARDS

National ANSI/TIA 568.2-D;
UL 444

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

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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TECHNICAL DATA - PHYSICAL

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

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

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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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