

LANmark-5e FTP Riser

LANmark-5e FTP Riser
Part Number: 10043494

Berk-Tek's LANmark-5e FTP cables are designed for horizontal applications in a structured cabling network to connect between the user outlet and the horizontal cross-connect. With independently verified performance that meets the TIA/EIA Category 5e standard, LANmark-5e FTP provides the additional signal isolation advantages of an FTP design and is ideal for general installations that may be subjected to higher than normal external electromagnetic noise sources.

Description

Construction: 24 AWG, bare copper wire insulated with foam polyethylene. Two insulated conductors twisted together to form a pair and four such pairs laid up to form the basic unit. The cable is shielded with an overall polyester aluminum foil with stranded tinned copper drain wire and is jacketed with flame-retardant PVC.

Standards: North American ANSI/TIA/EIA-568-B.2, Category 5e, International ISO/IEC 11801

Flame Rating: Non-plenum-UL 1666, CMR, CMG,

Applications: LANmark-5e FTP cable is intended for high speed data applications up to 100 MHz including:

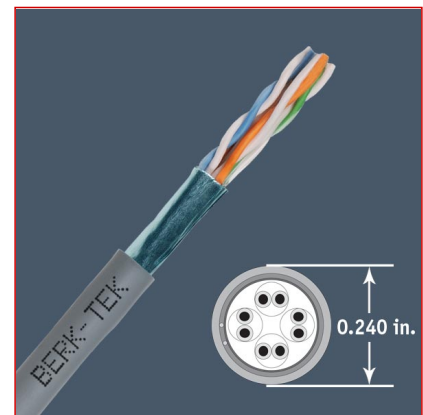
- ATM 155 Mb/s and Token Ring
- FDDI/CDDI 100 Mb/s
- Ethernet 1000BASE-T, 100BASE-TX, 10BASE-T

Features

- Independently verified to TIA/EIA Category 5e
- Supports 10BASE-T, 100BASE-T, 1000BASE-T
- Can be used with RJ-45 style connectivity
- RoHS Compliant

Benefits

- Reduced cable interference problems in areas of high EMI
- Extends performance limits for network applications thus increasing cabling lifetime
- Cables satisfy a variety of safety requirements



Standards

National TIA/EIA-568-B.2



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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. 5e
Fire safety	Riser Rated

Technical Data - Physical

	CMR	
Conductor diameter-in. (mm)	0.021	(0.54)
Cable diameter-in. (mm) (horizontal)	0.24	(6.1)
Nominal cable weight-lb./kft. (kg/km)	29	(43.5)
Max. installation tension-lb. (N)	25	(110)
Min. bend radius-in. (mm)	2	(50.8)

Parametric Measurements

	Riser
Mutual Capacitance	5.6 nF/100 m nominal
DC resistance	9.38 Ohms/100 m max.
Skew	45 ns/100 m max.
Pair to ground Unbalance	330 pF/100 m
Velocity of Propagation	70% nominal
Characteristic Impedance	100 ± 15 Ohms 1-100 MHz

Temperature Rating

Installation	0°C to +50°C
Operation	-10°C to +60°C



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Color Code

Pair 1	White	Blue
Pair 2	White	Orange
Pair 3	White	Green
Pair 4	White	Brown

Technical Data - Electrical

FREQ MHz	SRL (dB)	RL (dB)	IL (dB/100m)	PS-NEXT (dB)	NEXT (dB)	ACR (dB/100m)	PS-ACR (dB)	ELFEXT (dB)	PS-ELFEXT (dB)
	min.	min.	max.	min.	min.	min.	min.	min.	min.
1	25.0	20.0	2.0	62.3	65.3	63.3	60.3	63.8	60.8
4	25.0	23.0	4.1	53.3	56.3	52.2	49.2	51.7	48.7
10	25.0	25.0	6.5	47.3	50.3	43.8	40.8	43.8	40.8
16	25.0	25.0	8.2	44.3	47.3	39	36.0	39.7	36.7
20	25.0	25.0	9.3	42.8	45.8	36.5	33.5	37.7	34.7
31.25	23.6	23.6	11.7	39.9	42.9	31.2	28.2	33.9	30.9
62.5	21.5	21.5	17.0	35.4	38.4	21.4	18.2	27.8	24.8
100	20.1	20.1	22.0	32.3	35.3	13.3	10.3	23.8	20.8

Selling delivery information

PLEASE NOTE: In the interest of product improvement, Berk-Tek, a Nexans company 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.

