

Contact

Copper LAN Product Inquiry
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LANmark 350 Riser

Berk-Tek's LANmark-350 Premium Category 5e UTP cables are designed to meet the most advanced UTP horizontal cable applications. Tested up to 350 MHz, the guaranteed performance of this cable far exceeds the ANSI/TIA/EIA-568-B.2 and ISO/IEC 11801 horizontal cable requirements for PS-NEXT, attenuation, structural return loss, attenuation-to-crosstalk ratio (ACR) and impedance, making it ideal for high-end transmission links supporting today's networking protocols.

Description

Construction

Bare copper wire insulated with polyethylene. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit jacketed with flame-retardant PVC.

Standards

- North American: ANSI/TIA/EIA-568-B.2 Category 5e, UL 444 and C22.2 No.214-02
- International: ISO/IEC 11801-2nd Edition Category 5, EU Directive 2002/95/EC (RoHS)

Flame Rating

- Riser - UL 1666, CMR, IEC 332-1
- ETL Listed

Applications

Berk-Tek's LANmark-350 Premium Category 5e UTP cable is intended for high speed data applications up to 350 MHz including:

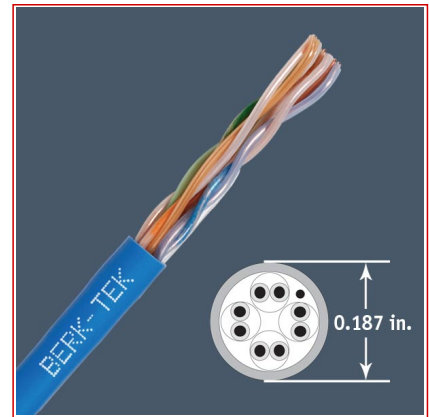
- IEEE 802.3 1000BASE-T 1 Gb/s
- ATM 155 Mb/s 155 Mb/s
- IEEE 802.3 100BASE-TX 100 Mb/s
- CDDI 100 Mb/s
- IEEE 802.3 10BASE-T 10 Mb/s

Features

- Small, round design
- ETL verified to TIA/EIA-568-B.2 and ISO/IEC 11801

Benefits

- Reliably supports 100BASE-TX Ethernet
- Reduced installation costs and maintenance
- Characterized to 450 MHz, 350 MHz greater than standard
- Lower bit error rates, increases network efficiency and uptime



Standards

National TIA/EIA-568-B.2

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Characteristics

Construction characteristics	
Type of cable	UTP
Dimensional characteristics	
Length per reel	1000.0 ft
Number of pairs	4
Usage characteristics	
Field of application	Indoor
Category	Cat. 5e
Fire safety	Riser Rated

Technical Data - Physical

Technical Data - Physical			Color Code		
Conductor	24 AWG Bare Copper		Pair-1	White/Blue	Blue
Conductor diameter—in. (mm)	0.02	(0.52)	Pair-2	White/Orange	Orange
Insulated Conductor Diameter- in. (mm)	0.036	(0.91)	Pair-3	White/Green	Green
Cable diameter—in. (mm)	0.187	(4.8)	Pair-4	White/Brown	Brown
Nominal cable weight—lb./kft. (kg/km)	20	(30)	Temperature Rating		
Max. installation tension—lb. (N)	25	(110)	Installation	0°C to +50°C	
Min. bend radius—in. (mm)	1	(25.4)	Operation	-20°C to +75°C	

Technical Data - Parametric Measurements

Mutual Capacitance	4.4 nF/100 m nom.
DC resistance	9.38 Ohms/100 m max.
Skew	25 ns/100 m max.
Pair to ground Unbalance	330 pF/100 m max.
Velocity of Propagation	70% nom.
Input Impedance	100 ± 13% 0.772-100 MHz 100 ± [13+15log (F/100)] 100-350 MHz
DC Resistance Unbalance of a Pair	5% max.

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Technical Data - Electrical Characteristics

FREQ	SRL		RL		INSERTION LOSS		PS-NEXT		NEXT	
	(dB)		(dB)		(dB/100m)		(dB)		(dB)	
MHz	min.	typical	min.	typical	max.	typical	min.	typical	min.	typical
1	25.5	44.7	20.0	38.2	2.0	1.7	68.3	82.7	70.3	89.1
4	25.5	44.9	23.3	36.0	4.0	3.5	59.9	73.3	61.9	81.9
10	25.5	47.7	25.0	39.0	6.4	5.6	53.3	65.9	55.3	75.1
20	25.5	45.9	25.5	47.5	9.2	8.1	48.8	60.6	50.8	66.3
31.25	24.4	55.3	24.4	43.0	11.6	10.1	45.9	59	47.9	65
62.5	22.7	41.6	22.7	39.5	16.8	14.6	41.4	55.7	43.4	62.1
100	21.5	37.3	21.5	35.5	21.7	18.7	38.3	51.4	40.3	57.5
200	19.8	43.1	19.8	46.5	32.1	27.2	33.8	47.7	35.8	53.2
300	18.8	36.1	18.8	35.7	40.5	33.9	31.2	45.2	33.2	53.4
350	18.4	35.4	18.4	35.0	44.4	36.9	30.2	42.2	32.2	48.8
400	18.1	38.0	18.1	34.4	48.0	39.6	29.3	39.4	31.3	45.6
450	17.8	34.7	17.8	34.5	51.5	42.4	28.5	36.2	30.5	43.4

Technical Data - Electrical Characteristics

FREQ	ACR		PS-ACR		ELFEXT		PS-ELFEXT	
	(dB@100m)		(dB@100m)		(dB)		(dB)	
MHz	min.	typical	min.	typical	min.	typical	min.	typical
1	68.3	83	66.3	80.8	66.8	86.2	63.8	77
4	57.3	71	55.3	69.6	54.7	73.2	42.7	64.8
10	48.9	61	46.9	59.8	46.8	65.5	44.8	57
20	41.6	55	39.6	52	40.7	60.8	38.7	51.5
31.25	36.3	50	34.3	48.1	36.9	56.6	34.9	47.8
62.5	26.6	42	24.6	40	30.8	50.5	28.8	42.1
100	18.6	33	16.6	31.2	26.8	45.5	24.8	38.5
200	3.7	21.2	1.7	18.4	20.7	44.7	17.7	37.4
300	—	9.6	—	8.3	17.2	38.1	14.2	31.9
350	—	4.9	—	1.9	15.9	36.4	12.9	30.6
400	—	-1.8	—	-4	14.7	33.4	11.7	27.5
450	—	-8.9	—	-10.6	13.7	36.7	10.7	28.3

IMPORTANT: Berk-Tek performance guarantees are based on swept-frequency testing and apply to all frequencies for the entire specified frequency range and are not limited to the table of data shown which are presented to demonstrate our guarantees at "representative" frequencies. Values above 350 MHz are for engineering information. Limited combustible version also available. Other jacket colors available.

Product List

☎ = Make to order, 📦 = Make to stock

Part Number	Description	Colour	Packaging
📦 10032418	LANmark-350 Riser	Yellow	Reel

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LANmark 350 Riser

Part Number	Description	Colour	Packaging
10032419	LANmark-350 Riser	Yellow	Box
10032417	LANmark-350 Riser	Yellow	Reel in a box
10032425	LANmark-350 Riser	Blue	Reel
10032426	LANmark-350 Riser	Blue	Box
10032424	LANmark-350 Riser	Blue	Reel in a box
10032446	LANmark-350 Riser	Grey	Reel
10032447	LANmark-350 Riser	Grey	Box
10032445	LANmark-350 Riser	Grey	Reel in a box
10032490	LANmark-350 Riser	Red	Reel
10032491	LANmark-350 Riser	Red	Box
10033697	LANmark-350 Riser	Black	Reel
10032480	LANmark-350 Riser	Black	Box
10068424	LANmark-350 Riser	Ivory	Reel
10044451	LANmark-350 Riser	Ivory	Box
10068425	LANmark-350 Riser	Light grey	Reel
10032427	LANmark-350 Riser	Green	Reel
10032428	LANmark-350 Riser	Green	Box
10033580	LANmark-350 Riser	Green	Reel in a box
10032433	LANmark-350 Riser	White	Reel
10032434	LANmark-350 Riser	White	Box
10032432	LANmark-350 Riser	White	Reel in a box
10032464	LANmark-350 Riser	Orange	Reel
10032465	LANmark-350 Riser	Orange	Box
10032463	LANmark-350 Riser	Orange	Reel in a box
10032441	LANmark-350 Riser	Pink	Reel
10034195	LANmark-350 Riser	Pink	Box
10033568	LANmark-350 Riser	Violet	Reel
10032440	LANmark-350 Riser	Violet	Box
10032439	LANmark-350 Riser	Violet	Reel in a box
10068427	LANmark-350 Riser	Brown	Reel

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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.