

LANmark-350 Patch

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

24 AWG, stranded tinned 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

Flame Rating

Patch-UL 1581, CM, IEC 332-1

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, 100BASE-TX, 10BASE-T

155 Mb/s ATM

ANSI X3.263 100Mb/s

4/16 Mb/s Token Ring

Features

- Specified and tested
- Small, round design
- ETL verified to TIA/ ISO/IEC 11801
- RoHS compliant

Benefits

- Reliably supports today's network protocols
- Reduced installation costs and maintenance
- Lower Bit Error Rates, increases network efficiency and uptime



Standards

National TIA/EIA-568-B.2

LANmark-350 Patch

Contact

Copper Product Inquiry

United States

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Characteristics

Dimensional characteristics	
Length per reel	1000.0 ft
Usage characteristics	
Category	Cat. 5e

Technical Data - Physical

	Patch	
Conductor diameter-in. (mm)	0.024	(0.61)
Cable diameter-in. (mm)	0.215	(5.5)
Nominal cable weight-lb./kft. (kg/km)	23	(34.5)
Max. installation tension-lb. (N)	25	(110)
Min. bend radius-in. (mm)	1	(25.4)

Parametric Measurements

	PATCH
Mutual Capacitance	4.4 nF/100 m nom.
DC resistance	9.09 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 ± 14% 0.772-100 MHz, 100 ± [14+15log (F/100)] 100-350 MHz

Temperature Rating

Installation	0°C to +50°C
Operation	-10°C to +75°C

Color Code

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

Technical Data - Electrical

Patch							
FREQ	SRL (dB)	RL (dB)	Insertion Loss (dB/100m)	PS-NEXT (dB)	NEXT (dB)	ELFEXT (dB)	PS-ELFEXT (dB)

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MHz	patch	patch	patch	patch	patch	patch	patch
1	-25.5	-20	-2.4	-68.3	-70.3	-66.8	-63.8
4	-25.5	-23.3	-4.8	-59.9	-61.9	-54.7	-52.7
10	-25.5	-25.5	-7.7	-53.3	-55.3	-46.8	-44.8
16	-25.5	-25.5	-9.7	-50.3	-52.3	-42.7	-40.7
20	-25.5	-25.5	-11	-48.8	-50.8	-40.7	-38.7
31.25	-24.4	-24.4	-13.9	-45.9	-47.9	-36.9	-34.9
62.5	-22.7	-22.7	-20.2	-41.4	-43.4	-30.8	28.8)
100	-21.5	-21.5	-26	-38.3	-40.3	-26.8	-24.8
155	-20.4	-20.4	-33.2	-35.5	-37.5	-23	-20
200	-19.8	-19.8	-38.5	-33.8	-35.8	-20.7	-17.7
300	-18.8	-18.8	-48.6	-31.2	-33.2	-17.2	-14.2
350	-18.4	-18.4	-53.3	-30.2	-32.2	-15.9	-12.9

Product List

Berk-Tek P/N	Description	Type of cable	Colour	Number of pairs	Packaging
10032637	LANmark-350 Patch	UTP	Yellow	4	Reel
10032638	LANmark-350 Patch	UTP	Yellow	4	Box
10032641	LANmark-350 Patch	UTP	Black	4	Reel
10032642	LANmark-350 Patch	UTP	Black	4	Box
10032645	LANmark-350 Patch	UTP	Red	4	Reel
10032646	LANmark-350 Patch	UTP	Red	4	Box
10032649	LANmark-350 Patch	UTP	Grey	4	Reel
10032650	LANmark-350 Patch	UTP	Grey	4	Box
10032659	LANmark-350 Patch	UTP	Violet	4	Reel
10032660	LANmark-350 Patch	UTP	Violet	4	Box
10032639	LANmark-350 Patch	UTP	Blue	4	Reel
10032640	LANmark-350 Patch	UTP	Blue	4	Box
10032643	LANmark-350 Patch	UTP	White	4	Reel
10032644	LANmark-350 Patch	UTP	White	4	Box
10032647	LANmark-350 Patch	UTP	Green	4	Reel
10032648	LANmark-350 Patch	UTP	Green	4	Box
10032658	LANmark-350 Patch	UTP	Orange	4	Reel
10032621	LANmark-350 Patch	UTP	Pink	4	Reel