

Berk-Tek 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-568.2-D 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

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-568.2-D, UL 444 and C22.2 No.214-02
- International: ISO/IEC 11801-2nd Edition Category 5, EU Directive 2011/65/EC (RoHS)

Flame Rating

- Patch - UL 1685, CM, IEC 332-1
- UL Listed

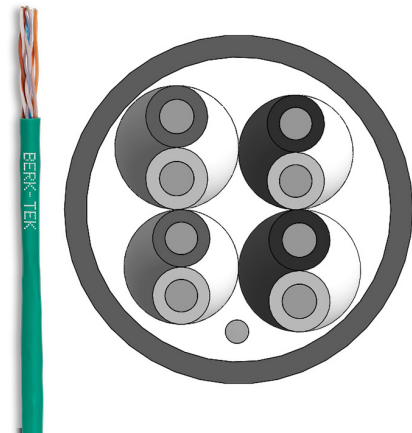
Features

- Small, round design
- ETL verified to ANSI/TIA-568.2-D 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

Country of Origin: USA



STANDARDS

International ISO/IEC 11801

National ANSI/TIA 568.2-D;
UL 444

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 CM

PRODUCT LIST

Part Number	Description	Colour	Packaging
 10032637	LANmark-350 Patch	Yellow	Reel
 10032641	LANmark-350 Patch	Black	Reel
 10032645	LANmark-350 Patch	Red	Reel
 10032649	LANmark-350 Patch	Grey	Reel
 10032659	LANmark-350 Patch	Violet	Reel
 10032639	LANmark-350 Patch	Blue	Reel
 10032643	LANmark-350 Patch	White	Reel
 10032647	LANmark-350 Patch	Green	Reel
 10032658	LANmark-350 Patch	Orange	Reel
 10032621	LANmark-350 Patch	Pink	Reel

 = Make to order,  = In stock

TECHNICAL DATA - PHYSICAL

Technical Data - Physical			Color Code		
			Pair-1	White/Blue	Blue
Conductor	24 AWG Stranded TC		Pair-2	White/Orange	Orange
Conductor diameter—in. (mm)	0.024	(0.61)	Pair-3	White/Green	Green
Insulated Conductor Diameter- in. (mm)	0.04	(1.02)	Pair-4	White/Brown	Brown
Cable diameter—in. (mm)	0.215	(5.5)			
Nominal cable weight—lb./kft. (kg/km)	23	(34.5)	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	5.6 nF/100 m nom.
DC resistance	9.09 Ohms/100 m max.
Skew	45 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.

TECHNICAL DATA - ELECTRICAL

FREQ MHz	SRL (dB)	RL (dB)	IL (dB/100m)	PS-NEXT (dB)	NEXT (dB)	ACR (dB@100m)	PS-ACR (dB@100m)	ELFEXT (dB)	PS-ELFEXT (dB)
	min.	min.	max.	min.	min.	min.	min.	min.	min.
1	25.5	20.0	2.4	68.3	70.3	67.9	65.9	66.8	63.8
4	25.5	23.3	4.8	59.3	61.3	56.5	54.5	54.7	41.7
10	25.5	25.5	7.7	53.3	55.3	47.7	45.7	46.8	43.8
20	25.5	25.0	11.0	48.8	50.8	39.8	37.8	40.7	37.7
31.25	24.4	24.4	13.9	45.9	47.9	34	32.0	36.9	33.9
62.5	22.7	22.7	20.2	41.4	43.4	23.2	21.2	30.8	27.8
100	21.5	21.1	26.1	38.3	40.3	14.2	12.2	26.8	23.8
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	15.8
350	18.4	18.4	53.3	30.2	32.2	—	—	15.9	12.9
400	18.1	18.1	57.6	29.3	31.3	—	—	14.7	11.7
450	17.8	17.8	61.8	28.5	30.5	—	—	13.7	10.7

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.

SUPPORTED CATEGORY 5E APPLICATIONS

STANDARD	APPLICATION	SPEED
IEEE 802.3	1000BASE-T	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

SELLING INFORMATION

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