

DESCRIPTION

Berk-Tek LANmark-6 UTP, Performance Guaranteed

Your business demands continuous performance from your IT network, so our specifications aren't simply numbers on the page. They define the way that we do business. This means that you are *guaranteed* industry-leading performance and quality for all Berk-Tek products.

Some other manufacturers talk about "typical" values, at Berk-Tek, we hold ourselves to a higher standard. We won't talk about typicals, we talk about what is true, guaranteed, and independently verified.

Based on Berk-Tek's advanced testing, LANmark-6 has a Converged Application Score (CA Score) of 6.4 and is recommended for basic desktop and phone applications, and a low density of connected devices.

Perform Beyond Expectations... Choose Berk-Tek

Construction: 24 AWG bare copper wire insulated with polypropylene. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit, jacketed with flame-retardant PVC.

Flame Rating: Plenum -NFPA 262, CMP

Features

- Inexpensive compact design
- Meets the requirements of ANSI/TIA-568.2-D
- Characterized to 500 MHz, 250 MHz greater than the standard
- Delivered in compact, strong, easy to identify boxes
- RoHS Compliant

Benefits

- Provides Category 6 performance
- · Cost effective Category 6 solution
- Provides additional usable bandwidth required for future applications
- Superior box design allows cable to be pulled easily from the box with minimum kinking
- Compact box design takes up less shelf space.
- · Clearly identified packaging eliminates potential confusion

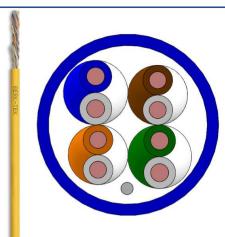
PROUDLY MADE IN THE USA

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STANDARDS

International ISO/IEC 11801

National ANSI/TIA 568.2-D; UL 444





CHARACTERISTICS

Construction characteristics	
Type of cable	UTP
Dimensional characteristics	
Number of pairs	4
Usage characteristics	
Field of application	Indoor
Category	Cat. 6
Fire safety	CMP - Plenum Rated
Recommended installation temperature range	0 50 °C
Recommended operating temperature range	-20 75 °C

PRODUCT LIST

	Part Number	Description	Colour	Length per reel [ft]	Packaging
晶	10136233	LANmark-6 UTP Plenum	Blue	1000.0	Reel
壘	10136226	LANmark-6 UTP Plenum	Blue	1000.0	Box
晶	10136265	LANmark-6 UTP Plenum	White	1000.0	Reel
壘	10136230	LANmark-6 UTP Plenum	White	1000.0	Box
壘	10136749	LANmark-6 UTP Plenum	Yellow	1000.0	Box
壘	10136751	LANmark-6 UTP Plenum	Yellow	1000.0	Reel
Ľ	10137364	LANmark-6 UTP Plenum	Violet	1000.0	Box
晶	10136748	LANmark-6 UTP Plenum	Green	1000.0	Box
壘	10136750	LANmark-6 UTP Plenum	Green	1000.0	Reel
C	10137365	LANmark-6 UTP Plenum	Red	1000.0	Box
C	10141073	LANmark-6 UTP Plenum	Orange	1000.0	Box
Ľ	10188830	LANmark-6 UTP Plenum	Black	1000.0	Box
Ľ	11049196	LANmark-6 UTP Plenum	Pink	1000.0	Box
Ľ	11060822	LANmark-6 UTP Plenum	Brown	1000.0	Box
壘	11091284	LANmark-6 UTP Plenum	Dark grey	1000.0	Reel
壘	11091258	LANmark-6 UTP Plenum	Dark grey	1000.0	Box
壘	11074702	LANmark-6 UTP Plenum 1500 ft. smartPAK	Blue	1500.0	Box
壘	11074742	LANmark-6 UTP Plenum 1500 ft. smartPAK	White	1500.0	Box
壘	11074893	LANmark-6 UTP Plenum 1500 ft. smartPAK	Yellow	1500.0	Box
晶	11074897	LANmark-6 UTP Plenum 1500 ft. smartPAK	Green	1500.0	Box
晶	11094952	LANmark-6 UTP Plenum 1500 ft. smartPAK	Dark grey	1500.0	Box
				📞 = Make to order	r, 🚆 = In stock

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LANMARK-6 PLENUM - TECHNICAL INFORMATION

Electrical	Characteristics							
FQ = Frequency (MHz) / TIA = TIA Spec / PG = Product Guarantee								
	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACRF (dB)	LCL/TCL			
FQ	TIA / <mark>PG</mark>	TIA / PG	TIA / <mark>PG</mark>	TIA / PG	PG			
1	20.00 / 20.00	74.30 / <mark>74.30</mark>	72.30 / 72.30	67.80 / <mark>67.80</mark>	40.00			
4	23.00 / <mark>23.00</mark>	65.30 / <mark>65.30</mark>	63.30 / <mark>63.30</mark>	55.80 / <mark>55.80</mark>	40.00			
10	25.00 / <mark>25.00</mark>	59.30 / <mark>59.30</mark>	57.30 / <mark>57.30</mark>	47.80 / 47.80	40.00			
16	25.00 / <mark>25.00</mark>	56.20 / <mark>56.30</mark>	54.20 / <mark>54.30</mark>	43.70 / <mark>43.70</mark>	38.00			
20	25.00 / <mark>25.00</mark>	54.80 / <mark>54.80</mark>	52.80 / <mark>52.80</mark>	41.80 / <mark>41.80</mark>	37.00			
31.25	23.60 / <mark>23.60</mark>	51.90 / <mark>51.90</mark>	49.90 / <mark>49.90</mark>	37.90 / <mark>37.90</mark>	35.10			
62.5	21.50 / <mark>21.50</mark>	47.40 / <mark>47.40</mark>	45.40 / <mark>47.40</mark>	31.90 / <mark>31.90</mark>	32.00			
100	20.10 / <mark>20.10</mark>	44.30 / 44.30	42.30 / 42.30	27.80 / 27.80	30.00			
150	18.90 / <mark>18.90</mark>	41.70 / <mark>41.70</mark>	39.70 / <mark>39.70</mark>	24.30 / 24.30	28.20			
200	18.00 / <mark>18.00</mark>	39.80 / <mark>39.80</mark>	37.80 / <mark>37.80</mark>	21.80 / 21.80	27.00			
250	17.30 / 17.30	38.30 / <mark>38.30</mark>	36.30 / <mark>36.30</mark>	19.80 / <mark>19.80</mark>	26.00			
300	— / 16.80*	— / <u>39</u> .10*	— / 37.10*	— / 18.30*	25.20			
350	— / 16.30*	— / <u>38.20</u> *	— / 36.20*	— / 16.90*	24.60*			
400	— / 15.90*	— / 37.30*	— / 35.30*	— / 15.80*	24.00*			
450	— / 15.50*	— / 36.50*	— / 34.50*	— / 14.70*	23.50*			
500	— / 15.20*	— / 35.80*	— / 33.80*	— / 13.80*	23.00*			
	IL (dB/100 m)	ACR (dB/100 m)	PSACR (dB/100 m)	PSACRF (dB/100 m)	EL TCTL			
FQ	TIA / PG	TIA / PG	TIA / PG	TIA / PG	PG			
1	2.00 / 2.00	72.20 / 72.20	70.30 / <mark>70.30</mark>	64.80 / <mark>64.80</mark>	35.00			
4	3.80 / <mark>3.80</mark>	61.50 / <mark>61.50</mark>	59.50 / <mark>59.50</mark>	52.80 / <mark>52.80</mark>	23.00			
10	6.00 / <mark>6.00</mark>	53.40 / <mark>53.40</mark>	51.30 / <mark>51.30</mark>	44.80 / <mark>44.80</mark>	15.00			
16	7.60 / 7.60	48.80 / <mark>48.80</mark>	46.70 / <mark>46.70</mark>	40.70 / 40.70	10.90			
20	8.50 / <mark>8.50</mark>	46.40 / <mark>46.40</mark>	44.30 / 44.30	38.80 / <mark>38.80</mark>	9.00			
31.25	10.70 / 10.70	41.40 / <mark>41.40</mark>	39.20 / <mark>39.20</mark>	37.90 / <mark>34.90</mark>	—			
62.50	15.40 / <mark>15.40</mark>	32.40 / <mark>32.40</mark>	30.00 / <mark>30.00</mark>	28.90 / 28.90	—			
100	19.80 / <mark>19.80</mark>	25.20 / <mark>25.20</mark>	22.50 / <mark>22.50</mark>	24.80 / 24.80	—			
150	24.70 / <mark>24.60</mark>	16.90 / <mark>16.90</mark>	14.90 / 14.90	21.30 / 21.30	—			
200	29.00 / 29.00	10.80 / 12.90	8.80 / <mark>8.80</mark>	18.80 / <mark>18.80</mark>	_			
250	32.80 / <mark>32.80</mark>	7.30 / <mark>7.30</mark>	3.50 / <mark>5.50</mark>	16.80 / <mark>16.80</mark>	—			
300	— / 36.40*	— / 2.70*	<u> </u>	— / 15.30*	—			
350	— / 39.80*	<u> </u>	<u> </u>	13.90 / <mark>13.90</mark> *	—			
400	— / 43.00*	<u> </u>	<u> </u>	12.80 / <mark>12.80</mark> *	—			
450	— / 46.00*	<u> </u>	<u> </u>	— / 11.70*	—			
500	<u> </u>	<u> </u>	<u> </u>	10.80 / <mark>10.80</mark> *	—			

*Values provided for reference only

Parametric Measurements	
Description	
Mutual Capacitance	5.2 nF/100m nominal
DC Resistance	9.38 Ohms/100m max.
Skew	45 ns/100m max.
Pair-to-Ground Unbalance	330 pF/100m max.
Velocity of Propagation	67% nom.
DC Resistance Unbalance	5% max.

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Berk-Tek LANmark-6 Plenum Rated



Color Code				
Pair-1	White/Blue		Blue	
Pair-2	White/Orange		Orange	
Pair-3	White/Green		Green	
Pair-4	White/Brown		Brown	
Supported Category 6 Applications				
Standard	Application		Speed	
IEEE 802.3	1000BASE-T		1 Gb/s	
ATM	155 Mb/s		155 Mb/s	
CDDI			100 Mb/s	
IEEE 802.3	100BASE-T		10 Mb/s	
IEEE 802.3 af	PoE		1 GB/s	
IEEE 802.3 at	PoE+, Type 1 & 2		1 Gb/s	
IEEE 802.3bt	PoE++, Type 3 & 4		1Gb/s	
Technical Data - Physical				
Conductor		24 AWG Bare Copper		
Conductor Diameter - in. (mm)		0.022	(0.56)	
Insulated Conductor Diameter - in. (mm)		0.040	(1.02)	

	0.010	(1.02)	
Cable Diameter - in. (mm)	0.230	(5.84)	
Nom. Cable Weight - Ib./kft (kg/kft)	27	(12.25)	
Max. Installation Tension - Ib. (N)	25	(110)	
Min. Bend Radius - in. (mm)	1.00	(25.40)	

LANMARK-6 CONVERGED APPLICATION SCORE

A cable's Converged Application Score (CA Score) is in an indicator of how well IP traffic is protected and how much heat rise there is when the cable undergoes PoE testing. The score is represented by a numeric value between 1 and 10, with 1 being the lowest and 10 being the highest. In reality, a score of 1 is unattainable because it would represent no connection, as is a score of 10 because it would mean zero heat rise with high power PoE. CA Scores range between 2 and 9.

	LANmark-6						
	Score	> 3.6	3.6 - 5.5	5.6 - 6.5	6.6 - 7.5	7.6 - 8.5	8.6 +
CA Score	Performance	Unacceptable	Poor	Limited	Good	Better	Best
	Heat Rise	Severe	Significant	Moderate	Moderate	Moderate	Low

What does the CA Score tell you? A performance rating of "Poor" (less than 3.6) means that there were consistent noticeable flaws (dropped frames, media loss, etc) in the applications tested. As you move towards higher performance scores, you would notice fewer and fewer flaws, until you reach a score of 9, which is almost flawless. PoE testing is also an important factor; cables that experienced less temperature rise achieve higher CA Scores.

LANMARK-6 UTP PLENUM JACKET LEGEND

BERK-TEK LANMARK-6 24 AWG CMP 75C C(UL)US ETL VERIFIED TIA-568.2-D CAT 6 [ANY APPLICABLE PATENTS] [DATECODE] [SEQ#] FT

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.

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