

LANMARK™-10G is a next generation cable that is capable of meeting the demanding requirements for 10 gigabit Ethernet (10GBASE-T) when used with other high-quality components. LANMARK-10G is a good choice for supporting applications requiring high bandwidth: such as data centers, server farms, storage area networks, and campus backbones.

## DESCRIPTION

### Construction

26 AWG stranded, tinned copper wire insulated with thermoplastic. Two insulated conductors twisted together to form a pair and four such pairs laid up with a crossfiller form the basic unit. Jacketed with two layers of flame-retardant polymer.

### Standards

North American: UL 444 & C22.2 No. 214-02

International: EU Directive 2011/65/EU (RoHS)

### Flame Rating

Patch-UL 1581, CM, IEC 332-1, ETL Listed

### Applications

Berk-Tek's LANMARK-10G UTP cable is intended for future and high speed data and multimedia applications including:

- IEEE 802.3 1000BASE-T 1 Gb/s
- TIA/EIA-854 1000BASE-TX 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
- IP Video
- Broadband Video

### Features

- Flexible round, compact design
- Documented balance characteristics (LCL/TCL, EL TCTL)
- Reduced attenuation (Insertion Loss)

### Benefits

- Easier installation and cable management with round, flexible design
- Capable of reliably supporting 10GBASE-T networks
- Provides bandwidth required for multimedia, broadband video, analog video, and other future applications
- Balance characteristics improve overall cable performance and reduce transmission errors
- Improved insertion loss for stronger signal-to-noise ratio

## STANDARDS

### International

EU Directive 2011/65/EU (RoHS)

### National

ANSI/TIA 568.2-D

## CHARACTERISTICS

### Construction characteristics

Type of cable	UTP
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### Dimensional characteristics

Length per reel	1000 ft
Number of pairs	4

### Usage characteristics

Field of application	Indoor
Category	Cat. 6
Fire safety	CM

## PRODUCT LIST

Part Number	Description	Colour	Packaging
☎ 10123772	LANMARK-10G Patch	Blue	Reel
☎ 10177330	LANMARK-10G Patch	White	Reel
☎ 10135528	LANMARK-10G Patch	Green	Reel
☎ 11035873	LANMARK-10G Patch	Grey	Reel
☎ 11060111	LANMARK-10G Patch	Black	Reel

☎ = Make to order, 📦 = In stock

## TECHNICAL DATA PHYSICAL

Physical			Color Code		
Conductor	26 AWG stranded TC		Pair-1	White	Blue
Conductor diameter—in. (mm)	0.019	(0.48)	Pair-2	White	Orange
Insulated conductor diameter—in. (mm)	0.033	(0.84)	Pair-3	White	Green
Cable diameter nom.—in. (mm)	0.290	(7.37)	Pair-4	White	Brown
Nominal cable weight—lb./kft. (kg/km)	40	(60)	Temperature Rating		
Max. installation tension—lb. (N)	25	(110)	Installation	0°C to +50°C (+32 °F to +122 °F)	
Min. bend radius—in. (mm)	2.00	(50.8)	Operation	-20°C to +60°C (-4 °F to +140 °F)	

## TECHNICAL DATA - PARAMETRICS

Mutual Capacitance	5.3 nF/100 m max.
Capacitance Unbalance P-G	330 pF/100 m max.
DC resistance	14.0 Ohms/100 m max.
DC unbalance	4% max.
Skew	45 ns/100 m max.
Velocity of Propagation	65% nom.

## TECHNICAL DATA - ELECTRICAL

FREQ	RL	IL	NEXT	PSNEXT	PSACR	ACRF	PSACRF	LCL/TCL	EL TCTL
MHz	dB min.	dB max	dB min.	dB min.	dB min.	dB min.	dB min.	dB min.	dB min.
1	20.0	3.0	74.3	72.3	69.3	67.8	64.8	60.0	35.0
4	23.0	5.6	65.3	63.3	57.7	55.8	52.8	54.0	23.0
10	25.0	8.8	59.3	57.3	48.5	47.8	44.8	50.0	15.0
16	25.0	11.1	56.2	54.3	43.1	43.7	40.7	48.0	10.9
20	25.0	12.4	54.8	52.8	40.3	41.8	38.8	47.0	9.0
31.25	23.3	15.6	51.9	49.9	34.3	37.9	34.9	45.1	--
62.5	20.7	22.3	47.4	45.4	23.0	31.9	28.9	42.0	--
100	19.0	28.5	44.3	42.3	13.8	27.8	24.8	40.0	--
250	15.6	46.5	38.3	36.3	--	19.8	16.8	36.0	--
350	14.3	55.8	36.1	34.1	--	16.9	13.9	34.6	--
400	13.8	60.0	35.3	33.3	--	15.8	12.8	34.0	--
500	13.0	67.9	33.8	31.8	--	13.8	10.8	33.0	--