

# LANMARK™ -10G

UTP/4-PAIR

AUGMENTED CATEGORY 6

IMPROVED



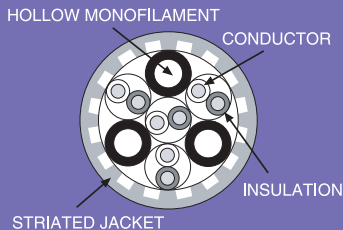
BERK-TEK

## TEMPERATURE RATING

	CMP	CMR
OPERATION	-20°C to +60°C	-20°C to +75°C
INSTALLATION	0°C to +50°C	0°C to +50°C

## AT A GLANCE

- ▶ Tested to 750 MHz
- ▶ Supports 10 Gigabit Ethernet
- ▶ Alien crosstalk compliant



**LANMARK™ -10G** is the next-generation cable that is capable of meeting the demanding requirements for 10 Gigabit Ethernet. LANmark-10G is a true multi-media cable and is specifically designed to handle voice, video and data simultaneously. This convergence of technologies simplifies even the most dynamic network. This breakthrough cable technology has been specifically designed to reduce alien crosstalk and its effects on 10GBASE-T networks.

## FEATURES

- ▶ New flexible, round, compact design
- ▶ Alien crosstalk compliant – ETL Verified
- ▶ Fully compliant to Augmented Category 6 requirements
- ▶ Documented balance characteristics (LCL/TCL, EL TCTL)
- ▶ Reduced attenuation (Insertion Loss)
- ▶ Highest-performing UTP cable available

## BENEFITS

- ▶ Easier installation and cable management with round design
- ▶ Capable of reliably supporting 10GBASE-T networks
- ▶ Provides bandwidth required for multi-media, 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
- ▶ Characterized to 750 MHz, 250 MHz greater than the standard

## CONSTRUCTION

Bare copper wire insulated with polyethylene (non-plenum) or insulated with FEP (plenum). Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit made round with 3 monofilaments and with a striated flame-retardant PVC jacket.

## FLAME RATING

Non-plenum—UL 1666, CMR, IEC 332-1  
Plenum—NFPA 262, CMP  
Patch—UL 1685, CM, IEC 332-1

ETL Listed

## STANDARDS

North American ANSI/TIA/EIA-568-B.2-10  
Augmented Category 6  
UL 444 and C22.2  
No. 214-02

International ISO/IEC 11801-  
2nd Edition Category 6  
EU Directive  
2002/95/EC (RoHS)

## APPLICATIONS

Berk-Tek's LANmark-10G UTP cable is intended to support the highest speeds in networking today—10 Gigabits per second.

IEEE 802.3	10GBASE-T	10 Gb/s
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

PART NUMBERS	CMP	CMR	PATCH
Light Gray 1000 ft. Reel	10137183	10137701	
White 1000 ft. Reel	10137384	10137703	
Blue 1000 ft. Reel	10130484	10137700	10123772
Orange 1000 ft. Reel	10138767	10138772	
Yellow 1000 ft. Reel	10137385	10137706	
Green 1000 ft. Reel in a Box	10137694	10137702	

TECHNICAL DATA — PHYSICAL	CMP	CMR	PATCH
Conductor	23 AWG solid bare copper	23 AWG solid bare copper	26 AWG tinned stranded copper
Conductor Diameter	0.023 in.	0.023 in.	0.019 in.
Insulated Conductor Diameter	0.044 in.	0.044 in.	0.033 in.
Cable Diameter	0.300 in.	0.300 in.	0.290 in.
Cable Weight	46 lbs/kft.	46 lbs/kft.	40 lbs/kft.
Min. Bend Radius	1.2 in.	1.2 in.	1.2 in.
TECHNICAL DATA — ELECTRICAL	CMP	CMR	PATCH
Velocity of Propagation	67% nom.	67% nom.	67% nom.
Time Delay Skew	45 nsec/100 m max.	45 nsec/100 m max.	45 nsec/100 m max.