

**EVERYTHING IP**

# WORKSTATION SOLUTIONS

**Connect. Control. Converge.**

**Berk-Tek<sup>®</sup>**  
A NEXANS COMPANY

CONNECTING **IT** ALL

# WORKSTATION SOLUTIONS



## IP CONVERGENCE IS UPON US, AND IT IS CONTINUALLY EVOLVING.

Voice and data began using the same structured cabling system around the early 2000s. Since then, each office or cubicle typically has had one or more four-drop outlets installed to connect and power all necessary devices.

Despite fewer drops, IP convergence is upon us, and the structured cabling system is tasked as the vehicle to connect applications to the network – from voice to data to video to power.

Technology has evolved, and because so many devices are now wireless, most of today's workstations now only have two-drop outlets. And in many installations, the VoIP phone is plugged into the wall, then daisy chained to the docking station via a patch cord, serving as the connection for both the phone and docking station.

*From 2016 to 2021, business internet traffic will grow by 20% every year.*

What's next for workstations? The evolution will continue, transitioning more and more to wireless. But since IP devices need power to operate or charge, there will continue to be a need for at least one drop to a wall outlet in each office to support Power over Ethernet (PoE). As buildings get smarter, and more devices are connected and powered via the network, it will be critically important to have high-quality structured cabling solutions to support future generations of IP devices.



## CONVERGED APPLICATION SCORE

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

To measure a cabling solution's performance in real-world scenarios, you need to do more than just count decibels. That's why Berk-Tek developed the Converged Application (CA) Score to measure how well cables perform under the stress of converging applications.

The CA Score is an indicator of how well IP traffic is protected and how much heat rise there is when the cable undergoes PoE testing. The CA Score is calculated using a proprietary algorithm that combines the results of tests measuring Mean Opinion Score (for VoIP sound quality), Frame Error Rate, Media Loss Rate (for video quality), and heat rise from PoE.

The CA Score is represented by a numeric value between 1 and 10, with 1 being the lowest performance and 10 being the highest.

For more information on the CA Score and Berk-Tek's Workstation Solutions, please visit [www.berktek.us/workstation](http://www.berktek.us/workstation).



## RECOMMENDED SOLUTIONS

### LANmark-1000: Designed for IP convergence



BERK-TEK



- Enhanced Cat 6 cable ideal for Gigabit Ethernet network applications up to 2.5Gbps (802.3bz).\*
- Specially designed with proprietary insulating compounds to protect IP traffic from the effects of heat from PoE.
- CA Score of 7.3, and offers 5dB of headroom over the Cat 6 standard.
- TEK-Twist technology provides unsurpassed noise protection and optimized converged application performance.

### LANmark-2000: The premium Cat 6 solution



BERK-TEK



- The industry's highest performing Cat 6 cable for Gigabit Ethernet network applications, recommended for up to 5.0Gbps applications (802.3bz).\*
- Specially designed with proprietary insulating compounds to protect IP traffic from the effects of heat from PoE.
- CA Score of 8.0 and offers 10dB of headroom over the Cat 6 standard.
- TEK-Twist technology provides unsurpassed noise protection and optimized converged application performance.
- Guaranteed 1Gbps performance to a maximum of 116 meters.

*\*Performance for 802.3bz applications (2.5Gbps and 5.0Gbps) cannot be guaranteed to 100 meters. Performance of 802.3bz is largely dependent on operating environment.*





## ABOUT BERK-TEK

Berk-Tek is the premier source for network infrastructure solutions. For more than 50 years, we have led the industry in the development of high-performance fiber optic and copper cables designed to transport high-speed data, voice and power transmissions. Our world-class research and development teams are dedicated to developing innovative structured cabling solutions that are critically important to managing the demands of today's emerging technologies. Our mission is to provide our customers with the solutions that meet both the current and future network needs, while continuously striving to maximize their return on investment.

**Berk-Tek**<sup>®</sup>  
A NEXANS COMPANY

CONNECTING **IT** ALL