

Connect with your ITT Cannon  
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[www.ittcannon.com](http://www.ittcannon.com)

cannon

We connect the  
future soldier.

Better connected. Better protected.



## Connect with the experts.

As a leading military connector supplier for over 75 years, ITT Cannon has a proven track record of the most advanced innovation.

We continue to lead the market and meet soldiers' needs of survivability, functionality and adaptability. All while keeping your top goal and priority in mind—get more soldiers home safely.



ENGINEERED FOR LIFE

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ENGINEERED FOR LIFE

To take on extreme conditions and treacherous missions, it is critical that a soldier be equipped with the most advanced, effective combat systems available.

No one is more qualified to help you equip soldiers than ITT Cannon. With nearly 100 years of interconnect excellence and seven decades of global presence in the military industry, ITT Cannon is a committed partner among today's military equipment manufacturers.

During the 1940s, Cannon engineers developed the first Tri-Services connector—for Army and Navy aircraft. This design set the standard for military aircraft connections and is the father of modern-day military specifications. Today, our focus is on supporting the emerging high-speed protocols, creating connectors that are faster with increased bandwidth to allow soldiers to be more intelligent, keeping them safer.

As technology advances, so must the soldier's equipment, maintaining constant contact and supplying crucial information. Using the best of today's technology to build efficient, integrated equipment, we can make your vision for the future soldier a reality.

- Leading successful operations
- Taking on high-value, rescue and recovery missions
- Staying alert and effective during combat
- Getting home safely

## How?

By lightening soldiers' physical load and cognitive burden, equipping them with state-of-the-art technologies and continuing to evolve their combat systems.

It takes 31 pounds of body armor to protect a soldier's entire body from enemy fire.

For every one pound runners lose, they shave two seconds off their mile time. Unnecessary weight makes a difference.

Soldiers today carry an average load of 87–127 pounds on extended foot patrols.

# Connecting with two priorities: exceptional mobility and survivability

Made to the smallest form factor possible for required signals, with a variety of coupling styles, our connectors are ready to take on the toughest challenges, complete with:

- **Pogo Contact Technology:** Achieves 10,000+ cycles and superior durability
- **Pogo Pad Technology:** Easily cleaned and eliminates the need for dust caps



## Voice of the soldier

"If I get in a mess during a mission, I need to be able to easily disconnect my equipment, clean it and reconnect. And I'm talking a matter of seconds."

## Meet our connectors:



### NEMESIS SPACE SAVER

Made of the most durable stainless steel, our space saver connector leads the industry in quality, reliability and performance. Its "no-profile" design means soldiers barely know it's there.



### NEMESIS SUPER CLEAN

With a unique patented draw-back barrel design, our super clean connector brings ultimate cleanability—allowing users to retract, clean and reconnect within seconds. Because in the field, everything else is more important.



### MICRO RF

These micro-connectors are the smallest available—a package size of less than 1 cm high—that provide high bandwidth data and RF for the most critical of applications. So you can design with increased freedom and decreased weight.



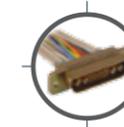
### MKJ

Available in both locking coupling and breakaway, these small connectors pack high reliability with crimp-and-poke field terminated contacts. That means versatility in the design lab and in the field.



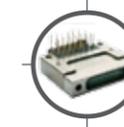
### MIKQ

Designed with a unique push/pull coupling for easy engagement and disengagement, these micro-sized circular connectors are made to hold up in the toughest conditions.



### MICRO-D

Thanks to their small size, these rectangular connectors are ideal for PCB and panel mount integration, reducing the effective space requirement of traditional panels by more than 25 percent.



### NANO-D

The smallest rectangular connector package available on the market, the Nano-D connects cables and PCBs. The smaller the connector, the smaller the equipment can be.



### UNIVERSAL CONTACT

Made for internal use on electronics, our PCB connectors provide the highest in reliability contact for three mission-critical systems—low power, data and RF.

# Lighter. Smarter. More prepared.

## WE SHARE YOUR VISION FOR THE FUTURE SOLDIER.

Imagine you're carrying the weight of body armor, weaponry and all your basic survival needs. You have not a kcal of energy to waste. Then add the stress of being under fire. There is no time or capacity to worry about equipment failure. ITT Cannon's lightweight, reliable connectors help increase a soldier's survivability, decrease the cognitive burden of extra weight, and maximize situational awareness for the greatest chance of mission success.

### THREAT LOCATION

When a shot is fired, identifying where it came from is disorienting. Our connectors help identify the origin of the threat.

### GPS

Soldiers don't have time to figure out where they are, where enemies are or where they need to go. ITT Cannon connectors help guide a soldier to the right longitude and latitude with ultimate precision.

### BIOSENSORS

Body temperature. Blood pressure. Heart rate. A soldier's vitals are vital to performance. In the heat of combat, a commander can stay privy to the condition of their soldiers with help from our connectors.

### NIGHT/THERMAL IMAGING

Not all missions happen in the light of day. For those that don't, our connectors help make sure soldiers are accurately seeing what's in front of them during these hard-to-see times.

### RADIO/AUDIO COMMUNICATIONS

When soldiers are separated from the rest of their platoon, the only mode of communication they have to rely on is their radio. ITT Cannon connectors keep soldiers connected in critical times.

### WEAPON CONTROL

When it comes to weapon control, there is no room for error. ITT Cannon connectors help soldiers make more accurate, timely decisions.

### BATTERY POWER/CHARGING

When under fire, a soldier cannot afford a powerless GPS, radio or any other application that will jeopardize their safety and their success. Our connectors supply optimum power to all applications.

# Take on the harshest environments with the toughest connectors.

## Cannon connectors support soldiers as they endure extreme and rugged conditions.

Using the most advanced materials and technology, ITT Cannon is ready to team up with you to engineer custom devices. Durable stainless steel with a ribbed overmold provides a secure grip and effective strain relief to prevent cable stressing. Each connector design is qualified to stand up to these intense environments:

- HIGH PRESSURE • EXTREME TEMPERATURE**
- HIGH VIBRATION • HIGH SHOCK • DEEP SEA**

ITT engineers solutions that increase signal and power functionality while meeting size constraints, exceeding high-temperature requirements and seal ratings.

Our specialized solutions—inspired by customers—include an industry-leading number of connections:

- USB, VGA, APIX, ThernetCAT6, SMBus, Audio, RS232, Power
- HDMI and USB 3.0, plus potential connections such as eSATA, DVI-D and Display Port

## Connected on the go

Soldiers hardly stay put in one place. That's why their gear needs to be ready to go wherever they go. Technology like our hot shoe connector is ready to do that. It provides reliable, low-weight, high-capacity intra-squad voice and data communication. Then there is our inductive charging to keep applications powered up on the go. No cords to plug in—if the soldier is moving in a vehicle, they are charging for the next patrol.

## Our innovation engine

When it comes to Space Saver and Super Clean product technology, we lead the industry in technical innovation. In addition to several patents awarded plus patent applications for products in development, we continue to evolve products, including fabric interconnects and dual coupling action interconnects.



## Voice of the soldier

"In the middle of combat in the hottest, driest conditions, I don't want to have to worry about desert dust getting in my connectors. I can't worry about it."

# The evolution continues.

By keeping our eyes on the future, we're invested in working with you to evolve our connectors for further applications and markets.

Now that we've created ultra-lightweight, incredibly durable and super-reliable connectors, it's time to think about what's next.

## FUTURE APPLICATIONS LIKE THE SMART VEST:

Currently in development, our smart vest integrates connectors into the fabric, reducing the weight and complexity of current vests.

ITT Cannon is your innovation partner in continuing to provide the most reliable, durable and efficient applications in the market.

## Voice of the soldier

"In the end, it's about successfully fulfilling my duties and returning home safely to my family."



	RADIO	VISION SYSTEMS	AUDIO	WEAPON CONTROL	BATTERY POWER/ CHARGING	COMPUTER	GPS	BIOSENSORS
MICRO-D		●		●	●			
MIKQ MICRO CIRCULAR		●			●	●		
MKJ TRINITY MINIATURE 38999				●		●	●	
NANO-D		●		●		●	●	●
NEMESIS SERIES	●	●	●			●	●	●
MICRO RF	●						●	●
UNIVERSAL CONTACT		●	●	●	●	●	●	●

