



cannon



## Cannon Future Soldier Solutions

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

Modern combat readiness requires the most effective and reliable gear to prepare soldiers for the unexpected. At ITT Cannon, we connect the modern soldier in the most challenging environments and situations. We provide a host of ruggedized and lightweight connectors designed to provide field soldiers reliable communications – whether on land, sea, or airborne.

ITT Cannon provides wearable connector solutions for transmitting power, data, and signals to a wide range of soldier-worn devices and equipment. Our connectors are highly resistant to temperature extremes, pressures, water, humidity, and extreme shock.

### Features & Benefits

- Lightweight, compact design
- Ultra-high density layouts
- Signal & power configurations
- Support high speed data
- Watertight sealing up to 20 meter depth
- High durability with 10,000 mating cycles
- Anti-glare, non-reflective plating

### Helmet Systems

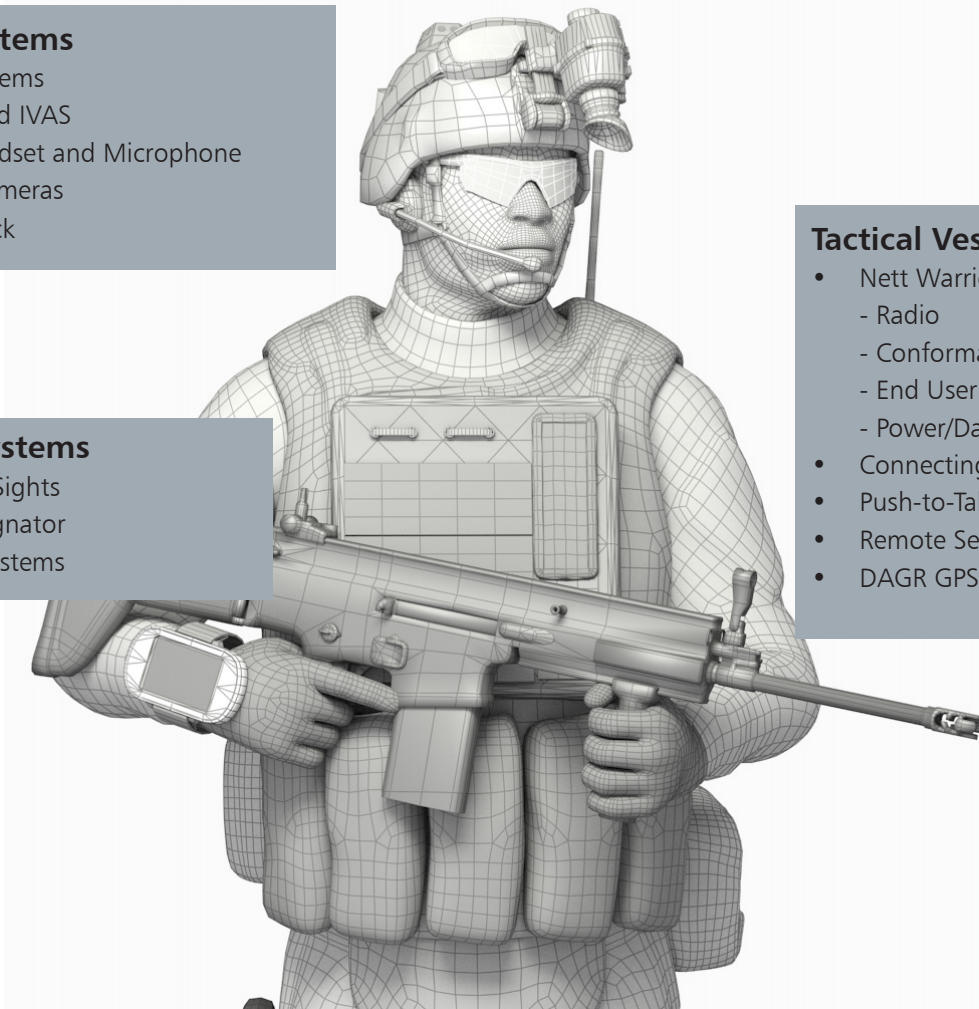
- Vision Systems
  - ENVG and IVAS
- Audio Headset and Microphone
- Helmet Cameras
- Battery Pack

### Weapon Systems

- Weapons Sights
- Laser Designator
- Infrared Systems

### Tactical Vest Systems

- Nett Warrior System
  - Radio
  - Conformal Battery
  - End User Device (EUD)
  - Power/Data Hub
- Connecting Cables
- Push-to-Talk (PTT)
- Remote Secure Receiver
- DAGR GPS Device



# Robust, Soldier-worn Interconnects



		MKJ4	MKJ Warrior	Nemesis	HDx™	HSC
Operating Voltage		200-600 V AC	250 V AC	165 V AC	250VDC	165 V AC
Dielectric Voltage (at sea level)		750-1800 V AC	750 V AC	500 VDC	2mA @ 1000 VAC RMS	500 VDC
Current Rating max. @ 40°C		5A-46A	5-10A	2A, 3A Peak	Ø0.3mm Contact: 1A Ø0.7mm Contact: 5A	2A, 3A Peak
Power & Signal		Yes	Yes	Yes	Yes	Yes
EMI/RFI Shielding		Yes	Yes	Yes	Yes	Yes
Wire Gauge Range AWG		28 to 8	28 to 22	30 to 22	28 to 22	30 to 22
Wire Gauge Range mm²		0.08 to 10	0.08 to 0.34	0.05 - 0.34	0.08 to 0.34	0.05 - 0.34
Number of Contacts		1 to 130	6-7	7 to 19	9, 12, 16	Various - Consult Factory
Type of Coupling		Double Start Thread	Breakaway	Breakaway	Breakaway or Locking	Various - Consult Factory
Mechanical coding		Yes	Yes	Yes	Yes	Yes
Configurations	Box Mount	Yes	Yes	Yes	Yes	Yes
	In-Line	Yes	Yes	Yes	Yes	Yes
	Jam Nut	Yes	Yes	Yes	Yes	Yes
Mating Cycles		2,000	2,000	10K Standard 5K Dual Coupling	5,000	10,000 Standard
Sealing / IP Rating		1 Meter for 1 Hour	1 Meter for 1 Hour	IP67 STD, IP68 20M	IPX8 20M	IP67 STD, IP68 20M
Shell Material		Aluminum Alloy / Stainless Steel	Aluminum alloy	Stainless Steel	Brass	Aluminum / Stainless Steel
Plating	Electroless Nickel	Yes	-	Yes	-	Yes
	Olive Drab Cadmium	Yes	-	-	-	Yes
	Teflon Nickel	Yes	-	-	-	-
	Zinc Nickel, Black	Yes	Yes	-	-	Yes
	Zinc Nickel, Green	Yes	-	-	-	-
	Passivated	Yes	-	-	-	Yes
	Selective Plating	Yes	Yes	-	-	Yes
	Ruthenium / Electroless Nickel	-	-	-	Yes	-
Black Electroless Nickel		Yes	-	Yes	-	Yes
Operating Temp		-65°C to 175°C	-65°C to 175°C	-55°C to 125°C	-51°C to +125°C	-55°C to 125°C
Shock Test (g's)		300	300	50	50	50
Vibration Test (MAX)		30 g's, 3 axes	30 g's, 3 axes	20 g's, 3 axes	10-2,000Hz, 15g	20 g's, 3 axes
Contact Size		12, 16, 20HD, 23, 8	23	Spring Probe & Pad	0.3mm, 0.7mm	Spring Probe & Pad
Contact Termination Types		Crimp, Machined Printed Circuit, Solder Cup	Crimp, Machined, Printed Circuit, Solder Cup	Printed Circuit, Solder Cup	Printed Circuit, Solder Cup	Printed Circuit, Solder Cup

## Custom Solution:

Magnetic Coupling | Rock-in-Lock Coupling | Cabling Systems | Low Profile  
Fiber Optic Termini | System Integration

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Follow us



**CHINA - Shenzhen City**  
+86.755.2726.7888

**GERMANY - Weinstadt**  
+49.7151.699.0

**ITALY - Lainate**  
+39.02938721

**KOREA**  
+82.2.702.7111

**SHANGHAI**  
+ 86.21.2231.2222

**UK - Basingstoke**  
+44.1256.347400

**FRANCE**  
+33.1.60.04.93.93

**HONG KONG**  
+852.2732.2720

**JAPAN - Kanagawa**  
+81.462.57.2010

**MEXICO - Nogales**  
+52.631.3110050

**SINGAPORE**  
+65 66974205

**USA - Irvine, CA**  
+1.800.854.3028