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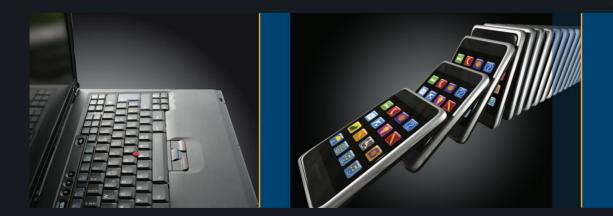
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Interconnect Solutions Cannon, VEAM, BIW Connector Systems

Over four billion Universal Contacts

in use without a single failure





ENGINEERED FOR LIFE

High Hertz Forces – Preload – 1.3mm to 4.6mm Free Heights

Addressing stated commercial customer needs for decreasing product variability across distributed global manufacturing footprints, ITT Interconnect Solutions pioneered the innovative "Universal Contact." Demonstrating a solid foundation in interconnect science, ITT applied the proven concept of high hertz stress preventing most dry circuit contact failures. Coupling this technology with both wipe and base

The standard specifications are:

Base Material: BeCu or TiCu

Plating: Selective Gold over Nickel plate

Contact Resistance: < 20 milli ohms

Rating: 2.0 to 3.0 amps depending on the free height



100% Reliable Functionality for Critical Commercial Applications

The ITT Interconnect Solutions Universal Contact Series provides over 3,000 mating cycles and is packaged in 12mm wide tape and reels to the EIA-481 standard. Wear resistance is subject to mating surface finish and plating type. With less than 20 milli ohms of contact resistance, pure signal integrity or grounding may be achieved. When deflected, the Universal Contact provides 0.7N of force with the associated wipe at the specified working ranges ensuring the ultimate interconnect link. Specific models will function under a 40G loading. Over the last 5 years, the Universal Contact boasts the sustained achievement of over 6 sigma PPM results.

material finish considerations. ITT commercial-

ized the Universal Contact as an independent

SMT contact providing electrical connectivity

between two points. Ensuring specific customer

material selection capabilities, this unique prod-

uct is available in both Beryllium and Titanium

Copper alloys. With 0.1mm of movement, the

Universal Contact creates 0.3N of force and

300k psi eliminating all issues surrounding

Solder Systems: Infrared and Hot Air re-flow

Operating Temperature: -40C to +85C

life cycle and vibration conditions.

Contact Forces: 3N to 9N

WHY INNOVATIVE CUSTOMERS CHOOSE ITT

- Provides overlapping free heights from 1.2 to 4.6mm, replacing traditional interconnect systems such as pogo pins or leaf spring contacts
- Incorporates a domed surface on the contact point beam, maintaining a high hertz stress contact and ensuring functionality during extreme conditions
- Creation of a protective "box" through the incorporation of unique side walls, preventing the beam from being over stressed and maintaining pre-load to the beam in the unmated condition
- Utilization of a defined solder-well, preventing soldier from wicking up the contact and causing variability in the contact forces
- Tight tolerancing on the X-Y-Z movement, allowing for robust connections between the contacts and component assemblies and ensuring outstanding performance during shock and vibration



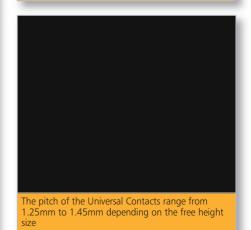
The "Domed" surface provides over 300k psi along with wipe in the mated condition achieving a superior interconnect system



The "solder well" prevents solder paste and flux from wicking up the contact and changing the operating forces



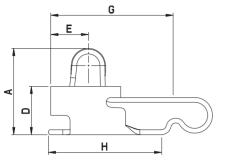
The "side wings" protect the moving beam and prevent the beam from being over-stressed and damaged

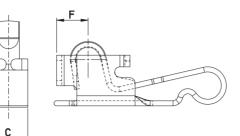


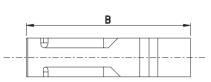


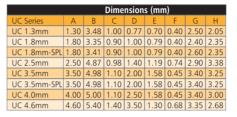
Achieving Manufacturing Repeatability, Efficiency, and Global Footprint Excellence

Contact dimension









Innovative Functionality & Global Execution

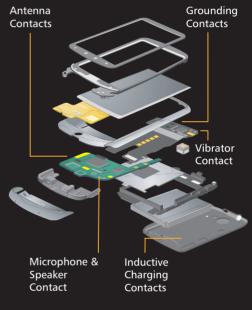
> For more specifications please see: www.ittcannon.com/...

With the ITT Universal Contact series, Interconnect Solutions fields a unique, singular contact design which exhibits over 0.3N of force with only 0.1mm of deflection. Coupled with 300k PSI and defined wiping action when deflected, the Universal Contact provides the ultimate dry circuit pressure contact for commercial and military applications. Rounding out this offering is the capability for nominal working heights ranging from 0.8mm to 4.2mm. Partnered with ITT ICS's pioneering engineering capability and globally deployed manufacturing excellence, we welcome your opportunity to define, execute, and field the next generation of hand held interconnects and establish the correct supply chain, localized to your unique needs. Over 5 years of production, 6 sigma PPM results.

APPLICATIONS

- Smart Phone
- PDA
- Laptop and Computer
- Home Electronic Devices
- Vehicle Keyfob
- Medical Scanning Equipment
- Bar Code Scanners
- GPS Units
- Set Top Boxes

UNIVERSAL CONTACT USES...



<image>

THINK ABOUT

Reliability, Innovation, and Engineered Solutions, these terms collectively describe ITT Interconnect Solutions and define a legacy of Interconnect Science spanning nearly a century, reflecting billions of quality products sold, and incorporating the three industry leading brands of Cannon, VEAM, and BIW. Our Innovation Timeline uniquely defines a historical compendium of interconnect leadership spanning over 90 years and including many industry firsts; Audio Connectors, Aviation Circulars, D-Sub's, Micro's, fiber optic assemblies, Zero Insertion Force Technologies, and other advanced applications of Interconnect Science. When collaborating with a technology leader, choose a participant with documented trust, established through multi-industry achievements as substantiated through the participation on every free world space mission, the creation of the first Mil / Spec interconnects, participation on the first talking movie, 100% reliability for over 45 years in Rail applications, and numerous additional achievements in major Military, Aerospace, Industrial, Medical, and Power markets. At ITT ICS, we truly are "Engineered for Life™." Think about ITT.

