

Visit our website at

www.ittcannon.com

ITT Interconnect Solutions

Cannon, VEAM, BIW Connector Systems

- Global Design & Manufacturing
- **()** Customer Support

North America

MEXICO - Cannon, VEAM

Av.Libre Comercio s/n
entre Calzada Industrial
Nuevo Nogales y Calzada del Raquet Club,
Parque Industrial Nuevo Nogales
84093 Nogales, Sonora

phone: +52.631.3110050 fax: +52.631.3110060

USA - Cannon 666 East Dyer Road

Santa Ana, CA 92705 toll free: +1.800.854.3028

phone: +1.714.557.4700 fax: +1.714.628.2142

USA - BIW Connector Systems
500 Tesconi Circle

Santa Rosa, CA 95401 phone: +1.707.523.2300 fax: +1.707.523.3567

USA - VEAM

100 New Wood Road Watertown, CT 06795

phone: +1.860.274.9681 fax: +1.860.274.4963



ENGINEERED FOR LIFE

Europe & Middle East

FRANCE - Cannon, VEAM 15, Boulevard Robert Thiboust 77700 Serris

phone: +33.1.60.04.93.93 fax: +33.1.60.04.93.90

🗘 🕓 GERMANY - Cannon, VEAM

ITT Cannon GmbH Cannonstrasse 1 71384 Weinstadt

phone: +49.7151.699.0 fax: +49.7151.699.217

ITALY - Cannon, VEAM

Corso Europa 41/43 20020 Lainate (MI)

phone: +39.02938721 fax: +39.0293872300

LEBANON - BIW Connector Systems P.O. Box 199

Jounieh Lebanon

phone: +961.9.911.560 fax: +961.9.912.126

ON UK - Cannon, VEAM

Jays Close, Viables Estate Basingstoke RG22 4BA

phone: +44.1256.311200 fax: +44.1256.323356

Asia

CHINA - Cannon, VEAM
Tuopandun Industrial Area,
Jinda Cheng, Xiner Village, Shajing Town,
Baoan District, Shonzhon City

Baoan District, Shenzhen City, Guangdong Province, 518125 phone: +86.755.2726.7238 fax: +86.755.2726.7515

Nong KONG - Cannon, VEAM
Units 2405-6, 24/F, ING Tower
308 Des Voeux Road Central
Hong Kong

phone: +852.2732.2720 fax: +852.2732.2919

🔇 INDIA - Cannon, VEAM

ITT Corporation India Pvt. Ltd. Money Chamber, Unit No. 202 #6, KH Road

Bangalore 560027

phone: +91.80.41465632 fax: +91.80.41465631

🗘 🕓 JAPAN - Cannon, VEAM

5-11-3 Hibarigaoka, Zama-shi Kanagawa 252-0003 phone: +81.462.57.2010

phone: +81.462.57.2010 fax: +81.462.57.1680

SINGAPORE - Cannon, VEAM

10 Jalan Kilang #06-01 159410 Singapore

phone: +65.62763693 ext 232

fax: +65.62763685

The "ITT Engineered Blocks" symbol, "Engineered for life", "ITT", "Cannon", "VEAM" and "BIW Connector Systems" are registered trademarks of ITT Corporation. Specification and other data are based on information available at the time of printing, and are subject to change without notice. © 2013 ITT Corporation Front page photo © DOD, inside page right hand: Fotolia.com

Trinity MKJ – Reduction in weight and size without loss of reliability.

The Trinity MKJ family of mini circular connectors provides similar electrical and mechanical characteristics to larger and heavier Military Standard Environmental connectors.

ITT Cannon continues the tradition of innovation with the Trinity MKJ line of miniature circular connectors. Trinity MKJ products boldly positions itself as a primary resource to tackle your matrix of harsh environment applications. These connectors offer three coupling methods (threaded, bayonet and breakaway) in a highly engineered design with reduced weight by 71% and size by 52% without sacrificing the environmental performance or reliability.*

Bringing together a unique combination of Design, Functionality and Flexibility, the Trinity excels in delivering a product for a broad variety of harsh environment applications. The MKJ series comes with rear accessory threads or integral band platform for direct attachment of cable shield and overmold. Trinity MKJ provides unparalleled functionality for numerous applications across multiple markets including Industrial, Defense and Aerospace.

Our products do, what we say they will do



Contact Availability

Offered in a split tine and PC tail/soldercup contact designs with proven reliability in harsh environment conditions.
Contacts meet stanard MIL-C-39029



MKJ 1 and 5 Robust Coupling Mechanism

Trinity's internal ratchet mechanism system meets the robust MIL-DTL-38999 shock and vibration requirement and is well suited for harsh environment applications.



Multiple Keying Positions

Master Key and 2 secondary keys. Multiple clocking positions available.

Why customers benefit from choosing ITT's Trinity MKJ

- Available in rear release crimp or PCB/soldercup contacts
- Shells and jam nuts available in aluminum alloy or corrosion resistant stainless steel (AMS-QQ-S 763)
- Up to 2,000 mating cycles

Technical Overview

For size 23 contact

 $\sqrt{}$ Max Vibration 200 m/s² (20 g's) rms

Ø #22 - #28 AWG wire

Max. current 5 Amps / max. voltage 500 VAC

-55°C to +150°C / -67°F to +300°F





Integral Band Platform

Intergral band platform allows direct attachment of cable shield to connector.



Tooling & Accessory Options

Dust cap and backshells maintain the rear environmental sealing. crimp, contact insertion/extraction and banding tools are also available.



High Density Connector

Connector uses size 23 contacts accepting #22 to #28 wire. Contacts spacing is reduced to 0.076 inches providing a compact yet robust package.

Coupling Styles

The wide range of coupling options available for Trinity MKJ allow compatible connectors to meet your harsh environments demands.



Coupling	MKJ0 UNC Thread	MKJ 1 Double Start	MKJ 3 Bayonet	MKJ 4 Breakaway	MKJ 5 Triple Start
Markets & Segments	Defense, Aerospace, Medical, Industrial, Commercial				
Hardware	Aluminum	Aluminum/ Stainless Steel	Aluminum	Aluminum	Aluminum
EMI Shielding Effectiveness	40db attentuation, 100Mhz to 1000Mhz				
Mating Cycles	2000	2000	250 Aluminum 2000 Stainless Steel	500	500
RoHS Compliant	Available				
Materials	Shells - Aluminum Alloy or Stainless Steel Insultators - Thermoplastic Seals - Flourosilicone Contacts - Copper Alloy with gold over nickel plating				

Applications

ITT is pushing the boundries of technology to provide MKJ users with success innovations for a multitide of market-places to help achieve all of the important product differentiations.

- Sensors
- Satellites
- Instrumentation
- Missle systems
- Avionic systems
- Soldier technology
- Industrial equipment
- Unmanned aviation vehicles
- Navigation and Telemetry equipment
- Medical test and diagnostic equipment
- Ruggedized computers and hand held communication equipment
- Commercial & Military aircraft electronics













For more information please visit our website at www.ittcannon.com