

cannon

veam



ITT

ENGINEERED FOR LIFE

## Blue Generation® Plating

Ruggedized RoHS compliant, conductive plating, tested up to 500 hour salt spray resistance.

### The challenge

Due to robust configurations, aluminium connectors are often used in harsh environment applications that may cause corrosion. In order to avoid damaging the connector and staying within the respected RoHS requirements, the ITT Interconnect Solutions (ICS) team was challenged with developing a protective plating.

Although cadmium plating reaches a high grade of protection, yet still allows for conductivity; environmental laws have banned the use of cadmium on many applications.

### The solution

Following the market needs and strict environmental policies, ITT ICS developed a zinc-nickle based plating called Blue Generation®. It satisfied the need for a connector plating with 500 hours salt spray resistance and high shielding performance comparable to cadmium while complying to RoHS requirements.

### The CANNON & VEAM Difference:

- Long life of connectors in outdoor use
- Conformance to environmental laws
- High shielding performance
- Stable transmission and reception of signals due to EMI shielding

### Key features

- Plating Chemistry: Zinc - Nickel
- Salt spray resistance: 500 hours
- Shielding effect acc. VG 95373: >70 dB
- Conductivity: < 10 mOhm
- RoHS Compliance
- Blue Generation plating can be applied to all VEAM and Cannon products



CA-Bayonet Blue Generation Connectors

## Applications



MULTI AXLE TRUCKS



CONSTRUCTION EQUIPMENT



INDUSTRIAL



RAIL SYSTEMS

Blue Generation® Plating is compatible with:

### CA-Bayonet



- IP 67 environmental resistant
- Contacts ranging from 26 AWG to 1/0 AWG wire accommodation
- Available in RoHS compliant nickel and zinc cobalt platings
- Available in multiple shells styles including 90 degree end bells

### CIR-FRCIR



- Versatile electrical, optical, & multi-pin
- High shock & vibration resistance - Flame retardant (EN45545 – HL3)
- Up to 500 hours salt spray resistance
- Available with 1-159 pole, 256 layouts
- 2,000 mating cycles
- Available in aluminium alloy, stainless steel & marine bronze
- RoHS & REACH compliant
- IP 67 environmental resistant

### CIR M12



- Connector configurations: 1 way & 4 way
- Three types of contacts: 2, 4 and 8-pole
- Performance up to Category 7 (frequency up to 600MHz)
- Supports communication speed up to 10 Gbps
- Plastic materials according UL94-VO & NFF standards
- IP 67 environmental resistant

### Power Plate



- Crimp contact up to 240 sqmm
- The contacts come with multi- point bands ensuring low contact resistance & good performance up to 700A (max)
- Fast and easy coupling system with two screws or with latch mechanism
- Protection degree IP67 plating protection up to 00 hours salt spray.
- High operating voltage up to 9.6 kV

### VBN



- Compliant to mass transit specification NF F 61-030
- Approved & qualified by SNCF & RATP
- Flame retardant UL94V-0 & NFF thermoplastic insert
- Easy contact insertion & extraction
- Up to 500 hours salt spray resistance
- 2,000 Mating Cycles
- RoHS and REACH compliant
- IP 67 environmental resistant

## Why ITT

ITT is a focused multi-industrial company that designs and manufactures highly engineered critical components and customized technology solutions.

ITT Interconnect Solutions' CANNON & VEAM brands is a leading global manufacturer of connector products serving international customers in transportation end markets. ITT's Interconnect Solutions business, which also includes BIW Connector Systems brand, manufactures and supplies a variety of connectors and interconnects that make it possible to transfer data, signal and power in an increasingly connected world.

Connect with your ITT Interconnect Solutions representative today or visit us at [www.ittcannon.com](http://www.ittcannon.com)

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