

Connecting rail passengers to safety and reliability.

Proven rail expertise. Global capabilities.

The teams at ITT VEAM and ITT Cannon have an extensive, in-depth knowledge of rail from the tracks to the engine to the passenger car and every connection, every wire, every socket that makes for a smooth and efficient ride. As we continue to develop leading-edge technology, we'll continue to bring you the reliability and durability required to push the limits of rail.

As the need for connector technology in everything from high power distribution to sensors grows, we ensure our connectors are developed in alignment with the highly demanding needs of your market by actively participating in standardization bodies and working closely with industry technicians.

It is this type of collaboration that has led us to exceed industry standards and develop ceramic heat-resistive inserts, ROHS compliant corrosion-resistant conductive platings, plus:

- Flame-retardant insulator materials
- Mix of power, signal and data lines within a single robust connector
- Rigid insert, field configurable circular connectors according to NFF 61030 and EN 45545
- High temperature connectors that meet European SRT TSI fire rail safety regulations
- Shielded solutions for data transmission bundling Ethernet, WTB, MVB and video lines in one connector



Rail Applications

- Air conditioning
- Bogies
- Brake/speed sensors
- Converters & inverters
- Drivers cabin
- Switch box
- Propulsion system
- Data bus
- Signaling
- Door systems
- Speed sensors
- Lighting systems
- Video surveillance
- Warning systems
- Pantographs/HV
- Power distribution
- Battery chargers

Listings and Approvals



Cabin Systems & Doors

Power Distribution

Inter-vehicles

Converters/Inverters

Bogies & Sensors

CIR/FRCIR Series



- Available with 1-159 poles, 256 layouts, for signal, power and coax
- IP67 environmental resistant
- Flame retardant (EN 45545 HL3 – NFPA 130)
- 2,000 mating cycles
- Aluminium alloy shells up to 500 hours salt spray resistance
- Also available in stainless steel, Blue Generation® plating, & marine bronze

CIR M12 Series



- Available in 1 way and 4 ways versions
- 3 types of contacts: 2, 4, and 8- pole
- Performance up to Category, supports communication speeds up to 10 Gbps
- Flame retardant (EN 45545 HL3-NFPA 130)
- IP67 environmental resistant
- Aluminium alloy shells up to 500 hours salt spray resistance

CIR 290 Series



- Available with 3-101 poles
- 7.5 to 350 A
- 2,000 mating cycles
- Flame retardant (EN 45545 HL3-NFPA 130)
- Aluminum shells up to 500 hours salt spray resistance
- IP67 environmental resistant

VBN Series



- Available with 4-70 poles, 15 layouts and 500 mating cycles
- Flame retardant (EN 45545 HL3)
- Approved & qualified by SNCF & RATP
- In accordance with French Mass Transit Specifications NF F 61-030
- Easy contact insertion and extraction
- Aluminium alloy shells up to 500 hours salt spray resistance

HTB Series



- High temperature bayonet connector, tested at 800°C for 30 minutes - Exceeding ISO 834-1 required by TSI
- Stainless steel shells and ceramic insulators
- Exceeds ISO 834-1 standards
- Creates a REI 30 fire barrier in accordance with EN13501-2 /EN1363-1

DRS Series



- Double start ratchet threaded coupling mechanism
- 5 Keyways eliminate galling & mis-mating and increase connector stability
- Flame retardant (EN 45545 HL3-NFPA 130)
- High shock resistance (200G's)
- Aluminium alloy shells up to 500 hours salt spray resistance

Power Plate Series



- 2, 3, or 4 pole versions
- Highly customized according to cable, current, and voltage requirements
- Contacts with multi-point bands ensure low contact resistance & performance up to 700A (max)
- Operating voltage in accordance to EN50124-1
- Fast and easy coupling system with two screws or with latching mechanism

CIR Fiber Optic Series



- Available in 3, 6, & 12-way layouts with up to 500 mating cycles
- Front, rear, & panel mounting options
- Machined or stamped contacts
- Smoke & fire resistance per NFF16-101, NFF16-102, and EN 45545
- IP67 with front gasket and rear grommet
- Rear removable cable support or rear backshells

DRS Series



- Bayonet or threaded coupling
- Available with 4 - 22 multimode or singlemode fibers
- Supports communication speed up to 10 Gbps
- IP67 environmentally resistant
- Female front insert removable for easy ferrule cleaning
- Customized harnessing serve on request

For additional information contact your A.E Petsche representative at rail@aepetsche.com or:

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