



BVM Connectors

Water-resistant, lightweight, thermoplastic solutions for harsh environment applications.

ITT Cannon BVM connectors are a cost-effective interconnect solution that delivers an environmental sealing of up to IP68 in harsh environment applications such as outdoor lighting, infrastructure, industrial equipment, and off-road commercial vehicles. Designed for quick and simple installation, with screw-in contacts that require no special tooling, the series is available in 2 to 8-way layouts and in both bayonet and threaded coupling variants.

The ultra-rugged BVM series is a highly engineered, size and weight-optimized solution you can rely on for today's critical industrial applications.

The ITT Cannon Difference

- Global capabilities and local support
- Proven application expertise
- Over a century of interconnect leadership
- A committed innovator and business partner

Key Features

- Up to IP68 sealing
- 2 to 8-way layouts
- Bayonet and threaded coupling variants
- Screw-in contact system
- Excellent resistance to industrial fluids such as brake fluid and lubricants
- Quick and simple to install
- Secondary locking system (CPA) on bayonet variants
- Size and weight optimized



Threaded Coupling



Bayonet Coupling

Applications



HEAVY & OFF-ROAD VEHICLES



OUTDOOR / EVENT LIGHTING



INFRASTRUCTURE



ENERGY

Technical Specification

Ambient Temp	-40°C to +125°C
Operating Temp	BVM-T: up to 60°C BVM-B: up to 70°C
Sealing	IP66 IP68 BVM-T: 30m depth for 3h IP68 BVM-B: 5m depth for 1h
Durability	1,000 mating cycles
Overvoltage Category	II
Pollution Degree	BVM-T: 2 BVM-B: 3
Premating Contact	All Layouts, except 2-way

Materials	
Connector	PA66 GF UL94 V0
Body	PA66 UL94 V0
Cable Gland	BVM-T: PA66 UL94 V2 BVM-B: PA66 UL94 V0
Grommets	BVM-T: TPE BVM-B: Silicone
Seals	BVM-T: TPE BVM-B: Silicone
Terminations	Brass
Screws	Steel

Threaded Coupling BVM-T

Layout	Current rating	Max. voltage	Wire Range	Cable Diameter
2-way	17.5 A	500 V	0.5 – 2.5 mm ²	7.0* - 13.5 mm
3-way	17.5 A	500 V	0.5 – 2.5 mm ²	7.0* - 13.5 mm
4-way	17.5 A	500 V	0.5 – 1.5 mm ²	7.0* - 13.5 mm
5-way	17.5 A	500 V	0.25 – 1.5 mm ²	7.0* - 13.5 mm

* A minimum of 6 mm is possible with cable reducer 121488-4003

Bayonet Coupling BVM-B

Layout	Current rating	Max. voltage	Wire Range	Cable Diameter
2-way	41 A	500 V	2.5 – 6 mm ²	7.0 - 16.5 mm
3-way	32 A	500 V	2.5 – 4 mm ²	7.0 - 16.5 mm
5-way	17.5 A	400 V	0.5 – 2.5 mm ²	7.0 - 16.5 mm
6-way	17.5 A	400 V	0.5 – 1.5 mm ²	7.0 - 16.5 mm
8-way	10 A	400 V	0.25 – 1.0 mm ²	7.0 - 16.5 mm



Why ITT

ITT is a focused multi-industrial company that designs and manufactures highly engineered critical components and customized technology solutions. ITT’s Cannon brand is a leading global manufacturer of connector products serving international customers in aerospace, defense, medical, industrial and transportation end markets. ITT’s Connector business, which also includes the Veam and 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.

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Follow us

NORTH AMERICA

USA - Irvine, CA
+1.800.854.3028
MEXICO - Nogales
+52.631.3110050

EUROPE

GERMANY - Weinstadt
+49.7151.699.0
UK - Basingstoke
+44.1256.347400

ITALY - Lainate
+39.02938721

FRANCE
+33.1.60.04.93.93

ASIA PACIFIC

SINGAPORE
+65 66974205
JAPAN - Kanagawa
+81.462.57.2010

KOREA
+82.2.702.7111

CHINA - Shenzhen City
+86.755.2726.7888

HONG KONG
+852.2732.2720