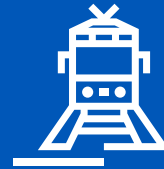


# Industry Applications.



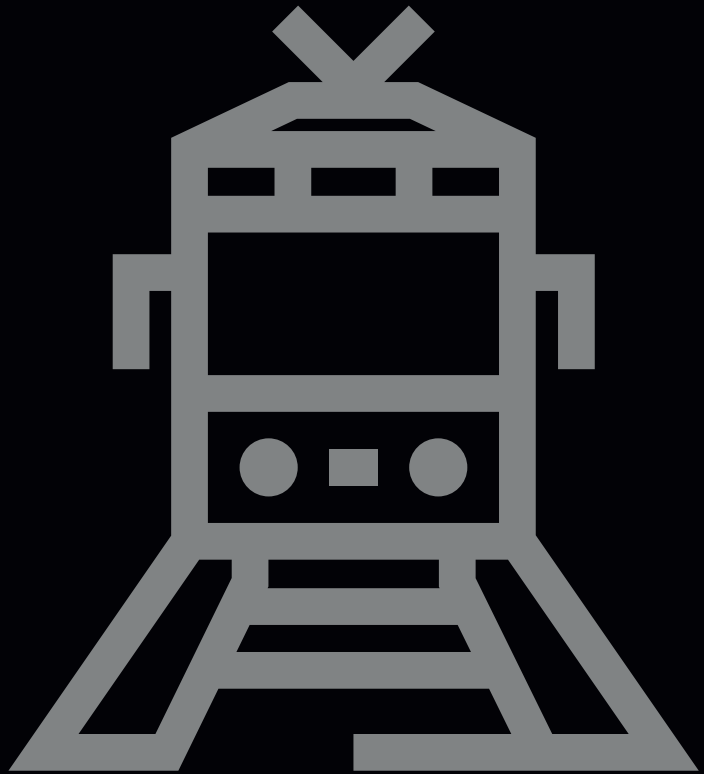
**Bulgin is widely recognised as a leading manufacturer of environmentally sealed connectors & components.**

**With 100 years of experience in the industry, Bulgin continues to innovate & develop products & services to cater for its global customer base across a variety of markets.**

# Transport & Infrastructure.

With ambient & environmental conditions such as water, moisture & extreme temperatures posing a constant threat to transport & infrastructure applications, reliable & robust solutions are vitally important in this sector. From outdoor lighting & industrial meters to HVAC systems & surveillance cameras, rest assured that our industry leading solutions are built for maximum reliability & performance to support the challenging needs of various indoor, outdoor & industrial applications.







# Lighting.

Bulgin is an industry leader in manufacturing reliable electronic solutions for lighting applications around the world. With ambient & environmental conditions such as water, moisture & extreme temperatures posing a constant threat to the performance of outdoor lighting equipment, secure & robust solutions are of paramount importance. For years we have supported the lighting needs of various infrastructure applications with our industry-leading solutions being used in various indoor, outdoor & industrial applications, from portable lighting for construction to airport flood lights.

Our IP rated circular connectors for power, signal & data are particularly suited to providing the high levels of performance needed for such demanding environments. Capable of being submerged in water & able to withstand high levels of UV exposure, they are specifically designed to reduce installation time & excel in challenging environmental conditions. If you require reliable waterproof connectors & cable assemblies suited to outdoor & architectural lighting applications, then Bulgin is the perfect choice to meet your unique lighting requirements.

## // Industry Applications:

- Roadside LED Lighting
- Commercial Lighting
- External Building LED Lighting
- Portable Maintenance LED Lighting
- Airport Flood Lighting
- Sport Venue LED Lighting



# Products Related To Industry:

## 400 Series

Circular Power Connectors



- Ratings up to 8A, 250V ac/dc
- 2, 3, 4, 6, 8, 10 & 12 contacts
- IP66, IP67, IP68 & IP69K protection
- Pin or socket, screw thread locking
- CE, UL, CSA & VDE approvals

## Mini Series

Circular Power Connectors



- Water & dustproof to IP68 when mated
- 2, 3, 4 or 6 Contact screw terminal inserts
- 3 or 8 Contact solder or crimp inserts
- Cable range from 3.5mm - 9mm
- 5 body styles, Flex, Inline, Panel (2 styles), Panel Side Entry

## 4000 Series

Circular Power Connectors



- Ratings up to 13A, 600V ac/dc
- 2, 3, 4, 6, 8, 10 & 12 Contacts
- IP66, IP67, IP68 & IP69K protection
- Pin or socket, bayonet locking
- UL, CSA & VDE approvals

## 6000 Series

Circular Power Connectors



- 2 - 22 Contacts
- Plastic or Metal Housing
- IP66, IP67, IP68 & IP69K protection
- Secure, quick mating / release
- cULus, UL, VDE Approvals

## Standard Series

Circular Power Connectors



- Rating up to 12A, 277V ac/dc
- 2, 3, 4, 6, 7, 9, 12 & 25 contacts
- IP66, IP67, IP68 & IP69K protection
- Plug & receptacle connectors
- CCC, UL, CSA & VDE approvals

## Fuse Holders

Fuse Holders



- In-line, panel, PCB & base mounting
- Screw or snap fit variants
- PC1, PC2 & PC3 shock protection
- IP66, IP67 & IP68 sealed versions
- Ideal for 5x20mm & 6.3x32mm fuse sizes

## Push Button

Switches



- Miniature, Round, Rectangular & Square Styles
- Screw or snap fit variants
- Front & Rear Panel Mount Types
- Illuminated & Non-Illuminated
- High Power Version 12(12)A @ 250VAC
- PC Mountable Options

## Rocker Switches

Switches



- Ratings from 10A, 250Vac - 20A, 277Vac
- Push-on, solder & PCB terminals
- Splash resistant & antimicrobial options
- Illuminated & Non-Illuminated options
- Large selection of sizes & styles

# Security & Surveillance.

With applications such as surveillance cameras constantly operating in some of the world's most challenging outdoor environments, reliable data & power transmissions are vital for ensuring that they can operate 24/7 in harsh ambient conditions. To resolve this issue, we have created a wide variety of standardised rugged, lightweight & sealed connectivity solutions including field installable connectors & overmolded cable assemblies that can also be customised for your specific design & development needs.

Whether you require secure & reliable connectors for camera systems or robust anti vandal switches for door entry keypads, we are sure to have the right solution for your security application. We thrive on providing secure & reliable solutions that prevent downtime & minimise maintenance work for applications where security & surveillance are a priority to your operations.

## // Industry Applications:

- Traffic Cameras
- ANPR Cameras & Sensors
- Parking Control Camera
- Security Door Switch
- Door Entry Keypads
- Aerial Surveillance & Mapping
- Security Video Monitoring
- Portable Alarm Systems
- Unmanned Surface Vehicle
- CCTV Cameras



# Products Related To Industry:

## Standard Series



Circular Power Connectors



- Rating up to 12A, 277V ac/dc
- 2, 3, 4, 6, 7, 9, 12 & 25 contacts
- IP66, IP67, IP68 & IP69K protection
- Plug & receptacle connectors
- CCC, UL, CSA & VDE approvals

## Push-Pull Series



Circular Automation Connectors



- Multiple contacts from 2 to 30
- High packing density for space savings
- Temp:-50°C to +200°C
- Cycle: >4500
- Resistance of Vibration: 10-2000Hz, 15g

## Fiber Range



Circular Fiber Connectors



- 4000, 5000 & 6000 series available
- Simplex & Duplex LC-Type Interface
- Expanded Beam series options
- Flex, Inline, Rear & Front Panel
- IP68 rating tested at 1,054kg/sq cm (15lb/sq in) 10m depth for 2 weeks

## 400 Series Mini USB



Circular Data Connectors



- Sealed Mini-USB cable connectors
- Data rates up to 480Mbps
- IP66, IP67, IP68 & IP69K protection
- USB V2.0 performance
- Front + rear & PCB panel mount options

## M5 / M8 / M12



Circular Automation Connectors



- A, B & D Coding Options
- IP67 protection
- Plastic & Metal Variants
- Overmolded cables PVC & PUR
- Ratings from 1A, 30V ac/dc up to 8A, 250V ac/dc

## 4000 Micro USB



Circular Data Connectors



- Data rates up to 480Mbps
- USB V2.0 performance
- IP66, IP67, IP68 & IP69K protection
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

## Vandal Resistant



Switches



- Rugged & Attractive
- High Corrosion Resistance
- Dome, Low & Prominent Profiles
- IP66, IP67 & IP68 Sealing Versions
- Illuminated & Non-Illuminated

## 400 Series SMB



Circular Data Connectors



- 50Ω impedance SMB antenna
- Frequency range 0 - 4GHz
- IP66, IP67, IP68 & IP69K protection
- Rewireable & pre-wired options
- RG-174 cables

# Buildings & Construction.

Heavy duty machinery used for construction & building maintenance require components that are equally as rugged as the environments that they operate in. From outdoor lighting & industrial meters to indoor HVAC systems, rest assured that our wide range of switches, indicators & waterproof connectors are built for maximum reliability & performance.

## // Industry Applications:

- Air Compressor
- Cherry Pickers
- Wireless Load Sensors
- Terrain / Mud Monitoring Systems
- Smart Metering
- Security Door Switch Panels
- Moisture Meters
- Heating Systems
- Air Cleaning Systems
- Disabled Refuge Systems



# Products Related To Industry:

## Standard Series



Circular Power Connectors



- Rating up to 12A, 277V ac/dc
- 2, 3, 4, 6, 7, 9, 12 & 25 contacts
- IP66, IP67, IP68 & IP69K protection
- Plug & receptacle connectors
- CCC, UL, CSA & VDE approvals

## Power Entry Modules



Power Entry Modules



- Vertical & horizontal arrangement
- Single or double pole variants
- Combinations of IEC inlets/outlets, filtered inlets, switches, fuse holders, voltage selectors & indicators available

## Indicators



Indicators



- LED, Neon & Filament options
- Panel sealed IP66 & IP67 versions
- Wide choice of bezel sizes & styles
- Multiple termination types
- Rugged stainless steel variants

## 400 Series Mini USB



Circular Data Connectors



- Sealed Mini-USB cable connectors
- Data rates up to 480Mbps
- IP66, IP67, IP68 & IP69K protection
- USB V2.0 performance
- Front + rear & PCB panel mount options

## Rocker Switches



Switches



- Ratings from 10A, 250Vac - 20A, 277Vac
- Push-on, solder & PCB terminals
- Splash resistant & antimicrobial options
- Illuminated & Non-Illuminated options
- Large selection of sizes & styles

## Enclosures



Enclosures



- IP67 rated - Dust & Waterproof
- ABS or Flame Retardant Polycarbonate
- Mounting posts & slots for PCB
- M20 thread cable glands & wall mounting brackets

## Toggle Switches



Switches



- Nylon / Metal & Lever options
- Ratings up to 20A, 250Vac - 277Vac
- IP67 panel seal versions
- Quick Connect, Solder, Screw & PCB termination options

## 7000 Series



Circular Power Connectors



- Ratings up to 25A, 600V
- 2, 3, 6, 10 & 32 contacts
- IP66, IP67 IP68 & IP69K rated
- Plastic Shells
- cULus, UL & VDE approvals



# Transportation.

The world is constantly changing & we help to keep it moving with our connectivity solutions. With more transport links & vehicles needed than ever before to meet the challenging needs of a growing population, we help to future proof your investment by providing cost effective & high performance solutions that last.

Experts in manufacturing sealed electrical connectors, we've provided connectivity solutions to transport & infrastructure applications for years. Particularly suited to provide power, signal & data connections in harsh environments, our reliable connector range makes sure that people & goods successfully get to their destination by land, sea or air.

## // Industry Applications:

- Lorry / Truck LED Lighting
- Road Management Maintenance
- Speed Check Signage
- Illuminated Taxi Sign
- Transport Refrigeration
- Noise Monitoring Terminal
- Container Cooling Units
- Surface Friction Test Equipment
- Noise Monitoring Terminal
- Traffic Lights



# Products Related To Industry:

## 900 Series

Circular Power Connectors



- 32A, 600V ac/dc max rating
- 2, 3, 4, 5, 7 & 10 contacts
- IP66, IP67, IP68 & IP69K protection
- Single or 3 phase applications
- CCC, UL, CSA & VDE approvals

## 400 Series

Circular Power Connectors



- Ratings up to 8A, 250V ac/dc
- 2, 3, 4, 6, 8, 10 & 12 contacts
- IP66, IP67, IP68 & IP69K protection
- Pin or socket, screw thread locking
- CE, UL, CSA & VDE approvals

## 4000 Series

Circular Power Connectors



- Ratings up to 13A, 600V ac/dc
- 2, 3, 4, 6, 8, 10 & 12 Contacts
- IP66, IP67, IP68 & IP69K protection
- Pin or socket, bayonet locking
- UL, CSA & VDE approvals

## 6000 Series

Circular Power Connectors



- 2 - 22 Contacts
- Plastic or Metal Housing
- IP66, IP67, IP68 & IP69K protection
- Secure, quick mating / release
- cULus, UL, VDE Approvals

## Standard Ethernet

Circular Data Connectors



- Cat5e RJ45 Ethernet Connectors
- Data rates up to 100MHz
- IP66, IP67, IP68 & IP69K protection
- Shielded system
- Noise immunity & EMI protection

## Toggle Switches

Switches



- Nylon / Metal / Lever options
- Ratings up to 20A, 250Vac - 277Vac
- IP67 panel seal versions
- Quick Connect, Solder, Screw & PCB termination options

## Fiber Range

Circular Fiber Connectors



- 4000, 5000 & 6000 series available
- Simplex & Duplex LC-Type Interface
- Expanded Beam series options
- Flex, Inline, Rear & Front Panel
- IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks

## Rectangular

Rectangular Power Connectors



- 2, 3, 4, 6, 8 & 12 Contact Count
- IP68 (with Rear Protection)
- Rated to 13A
- Wedge-locks available for contact retention & alignment



**Bulgin has you covered.**

**Our components are available through a large network of National & International Distributors Worldwide.**

**Search for distributors at:**

**[www.bulgin.com/en/products/distributors](http://www.bulgin.com/en/products/distributors)**

**Search for stock at:**

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