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# Never Beaten by Seasons

## Buccaneer® For Power

**Frozen Winters! Torrential Springs! Blistering Summers! Dusty Autumns!**

The Buccaneer range of IP68 waterproof connectors  
for power applications up to 32A, 600V.

# 900 Series Buccaneer®

The 900 series is the power house in Bulgin's range of IP68 rated connectors.

With a maximum voltage rating up to 600V ac/dc, current carrying capacity up to 32A and available from 2 to 10 poles, the 900 Series offers a secure and robust connection for many power applications.

Screw terminals facilitate easy termination in the field without the need for special tooling. Cables up to 22mm overall diameter can be accommodated, with additional strain relief, to give added security for the larger cable diameters.

The 900 series continues the Buccaneer pedigree into higher power applications.



## FLEX CABLE CONNECTOR



- Flex cable connector
- Mates with in-line flex or panel mounting versions
- PX0 Series 13-15mm cable dia. as standard
- PXA Series 20-22mm cable dia. as standard

## IN-LINE FLEX CABLE CONNECTOR



- In-line flex cable connector
- Mates with either PX0911 or PXA911 connectors
- PX0 Series 13-15mm cable dia. as standard
- PXA Series 20-22mm cable dia. as standard

## PANEL MOUNTING CONNECTOR



- Single hole fixing panel mounting connector - PX0931
- Flange mounting connector - PX0941
- Mates with either PX0911 or PXA911
- Supplied with sealing gaskets

## ACCESSORIES



Sealing Caps

- Sealing caps to maintain IP68 rating of unmated connectors
- Bulkhead adaptor moulding - PX0950, for use with flange mounting connector PX0941, to give 45° or 90° angle
- Gland packs

## APPLICATIONS

- Lighting
- Industrial Pumps
- Welding Equipment
- Sound/Broadcast Systems
- Handling/Lifting Equipment

- Water and dustproof to IP68 when mated
- IP68 rating tested @ 15lb/sq in (10m depth for 2 weeks)
- 32A, 600V ac/dc rating max.
- UL94-V0 flammability rating
- 2, 3, 4, 5, 7 & 10 poles
- 4 body styles; cable - flex & in-line flex, panel - single hole & flange mounting
- Pin or socket connection in each body style
- Leading earth contact for 3, 4, 5, 7 and 10 pole versions
- Cable range from 13-22mm overall diameter
- Cable strain relief on larger cable version
- Scoop proof contacts
- Approvals:   

## SPECIFICATION

|                              |                                                                 |                 |      |      |
|------------------------------|-----------------------------------------------------------------|-----------------|------|------|
| Poles:                       | 2, 3,                                                           | 4, 5            | 7    | 10*  |
| Current Rating:              | 32A<br>30A, CSA                                                 | 32A<br>25A, CSA | 32A  | 10A  |
| Voltage Rating:              | 600V                                                            | 600V            | 430V | 250V |
| Operating Temperature:       | -40° to +85°C                                                   |                 |      |      |
| Approvals:                   | UL, CSA, VDE                                                    |                 |      |      |
| Flammability Rating:         | UL94V-0                                                         |                 |      |      |
| Sealing:                     | IP68, EN 60529:1992 tested @ 15lb/sq in (10m depth) for 2 weeks |                 |      |      |
| Cable Acceptance:            | 13-22mm O/D                                                     |                 |      |      |
| Diameter over coupling ring: | 57.7mm                                                          |                 |      |      |





# Standard Buccaneer®

The original Buccaneer. The Standard Buccaneer was the first in Bulgin's range of IP68 rated connectors.

With a maximum voltage rating of 250V ac/dc, current carrying capacity up to 12A, and available from 2 to 25 poles, the Standard Buccaneer can satisfy most applications for dust and waterproof connections. Available in screw, crimp and solder contact versions, together with BNC inserts, it can be used in many applications. Its simple construction ensures ease of assembly without the need for special tooling.

The Standard Buccaneer has developed a reputation for providing secure connections for harsh environments.

**IP68**



## FLEX CABLE CONNECTOR



Flex Mounting

- Flex cable connector
- Mates with in-line flex or panel mounting versions
- Leading earth on 3 pole connectors

## IN-LINE FLEX CABLE CONNECTOR



In-Line Flex Mounting

- In-line flex cable connector
- Mates with flex cable connector

## PANEL MOUNTING CONNECTOR



Panel Mounting

- Single hole front or rear panel fixing connectors
- Bulkhead flange mounting connector
- Low profile flange mounting connector
- Mates with flex cable connector
- PCB version

## ACCESSORIES



Sealing Caps

- Sealing cap assembly tools to maintain IP68 rating of unmated connectors, seals connector and removes inserts
- Insertion and extraction tools for 25 way contacts
- Cable support

## APPLICATIONS

- Marine (Commercial & Leisure)
- Traffic Management
- Telecommunications
- Industrial Equipment

## FEATURES

- Water and dustproof to IP68 when mated
- IP68 rating tested at 15lb/sq in (10m depth for 2 weeks) and 140lb/sq in (100m for 12 hours)
- Up to 12A, 250V rating
- 2, 3, 4, 6, 7, 9, 12 & 25 poles
- 5 body styles - flex & in-line flex, panel - single hole & flange mounting
- Pin or socket connection in each body style
- 2, 3, 4, 6 & 7 pole screw terminals, 3, 9 & 12 pole crimp contacts, 25 pole crimp or solder contacts, BNC inserts, 3, 4, 6, 9, 12 & 25 pole PCB versions
- Cable range from 3.5 - 9mm overall diameter
- Approvals:   

## SPECIFICATION

|                              |                                                                |      |      |      |     |     |
|------------------------------|----------------------------------------------------------------|------|------|------|-----|-----|
| Poles:                       | 2, 3                                                           | 4    | 6, 7 | 9    | 12  | 25  |
| Current Rating:              |                                                                |      |      |      |     |     |
| UL & CSA                     | 10A                                                            | 6A   | 3A   | 5A   | 5A  | 1A  |
| VDE                          | 12A                                                            | 10A  | 5A   | 5A   | 5A  | 1A  |
| Voltage Rating:              | 250V                                                           | 250V | 250V | 150V | 50V | 50V |
| Operating Temperature:       | -20° to +70°C                                                  |      |      |      |     |     |
| Approvals:                   | UL, CSA & VDE                                                  |      |      |      |     |     |
| Flammability Rating:         | UL94HB                                                         |      |      |      |     |     |
| Sealing:                     | IP68, BS 5490:1977 tested @ 15lb/sq in (10m depth) for 2 weeks |      |      |      |     |     |
|                              | BSEN 60529:1992 tested @ 140lb/sq in (100m depth) for 12 hours |      |      |      |     |     |
| Cable Acceptance:            | 3.5 - 9.0mm                                                    |      |      |      |     |     |
| Diameter over coupling ring: | 38.0mm                                                         |      |      |      |     |     |

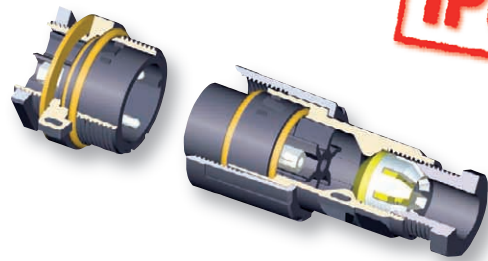


# Mini Buccaneer®

Dust and waterproof to IP68, the Mini Buccaneer addresses the need for a smaller connector.

With a maximum voltage rating of 380V ac, current carrying capacity up to 10A, and available from 2 to 8 poles, the Mini Buccaneer offers performance similar the Standard Buccaneer but in a smaller package. Although more compact than the Standard Buccaneer the Mini still boasts screw, crimp and solder contact versions together with BNC inserts. Its modular construction means that the connectors can be configured quickly and easily without the need for special tooling. The Mini Buccaneer continues to build on the reputation established by the Standard Buccaneer.

**IP68**



## FLEX CABLE CONNECTOR



Flex Mounting

- Flex cable connector
- Mates with in-line flex or panel mounting versions

## IN-LINE FLEX CABLE CONNECTOR



In-Line Flex Mounting

- In-line flex cable connector
- Mates with flex cable connector

## PANEL MOUNTING CONNECTOR



Panel Mounting

- Single hole fixing connector
- Right angle cable entry version
- Mates with flex cable connector
- Supplied with gaskets

## ACCESSORIES



Sealing Caps

- Sealing caps to maintain IP68 rating of unmated connectors
- Contact insertion tool

## APPLICATIONS

- Water Monitoring Meters
- Portable Equipment
- Test Equipment
- Data Acquisition Equipment

## FEATURES

- Water and dustproof to IP68 when mated
- IP68 rating tested at 15lb/sq in (10m depth) for 2 weeks
- UL94-V0 flammability rating
- Up to 10A, 250V rating
- 2, 3, 4, & 6 pole screw terminal inserts
- 3 & 8 pole solder or crimp inserts
- 50Ω or 75Ω BNC inserts
- 5 body styles - flex & in-line flex, panel - single hole fixing (3 styles)
- Pin or socket connection in each body style
- Body mouldings and inserts supplied separately
- Cable range from 3.5 - 9mm overall diameter
- Approvals: 

## SPECIFICATION

|                              |                                                                 |      |      |              |
|------------------------------|-----------------------------------------------------------------|------|------|--------------|
| Poles:                       | 2, 3                                                            | 4    | 6    | Crimp/Solder |
| Current Rating:              | 10A                                                             | 6A   | 3A   | 5A           |
| Voltage Rating:              | 250V                                                            | 250V | 250V | 380V         |
| Operating Temperature:       | -20° to +70°C                                                   |      |      |              |
| Approvals:                   | UL                                                              |      |      |              |
| Flammability Rating:         | UL94V-0                                                         |      |      |              |
| Sealing:                     | IP68, EN 60529:1992 tested @ 15lb/sq in (10m depth) for 2 weeks |      |      |              |
| Cable Acceptance:            | 3.5 - 9.0mm                                                     |      |      |              |
| Diameter over coupling ring: | 26mm                                                            |      |      |              |



# 400 Series Buccaneer®

The 400 series, the newest and the smallest in the range of IP68 rated connectors.

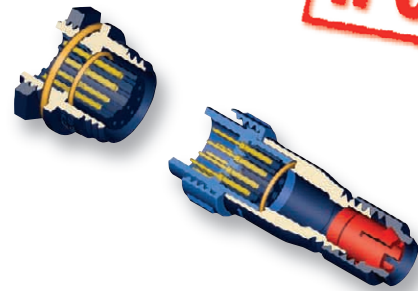
With ratings of up to 8A 250V ac/dc, and up to 12 poles, the 400 series offers practical solutions for both signal and mains power applications, but in a very compact space.

Contacts come in crimp and solder versions. They can be inserted and removed easily from the contact inserts and are gold plated for superior conductivity and high reliability.

Overmoulded cable assemblies provide secure and tamperproof connections.

The 400 series Buccaneer follows the long established pedigree of its larger brothers and does not compromise on performance.

**IP68**



## FLEX CABLE CONNECTOR



- Flex cable connector
- Mates with in-line flex or panel mounting versions (PX0411, PX0412, PX0413 & PX0401)
- Contacts supplied separately

## IN-LINE FLEX CABLE CONNECTOR



- In-line flex cable connector
- Mates with PX0410 & PX0400
- Contacts supplied separately

## PRE WIRED CABLE CONNECTORS



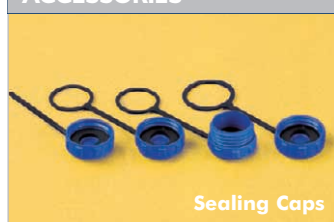
- Overmoulded cable assemblies
- Secure, tamperproof connections
- Single or double ended
- PX0400 mates with PX0401, PX0411, PX0412 & PX0413
- PX0401 mates with PX0400 & PX0410

## PANEL MOUNTING CONNECTOR



- Single hole front or rear of panel fixing
- Mates with PX0410 & PX0400
- Contacts supplied separately
- PCB version - fully loaded
- Supplied with gaskets

## ACCESSORIES



Sealing Caps

- Sealing caps to maintain IP68 rating of unmated connectors
- Insertion/extraction tools for contacts
- Gland packs

## FEATURES

- Sealed to IP68 when mated
- IP68 rating tested @ 15lb/sq in (10m depth for 2 wks)
- Up to 8A, 250V rating
- UL94-V0 flammability rating
- Overmoulded cable assemblies
- 2, 3, 4, 6, 8, 10 & 12 poles
- Pin or socket connection in each body style
- Crimp & Solder contacts
- Gold plated contacts
- Scoop proof contacts
- PCB Versions
- Cable range from 3 - 9mm overall diameter
- Approvals:

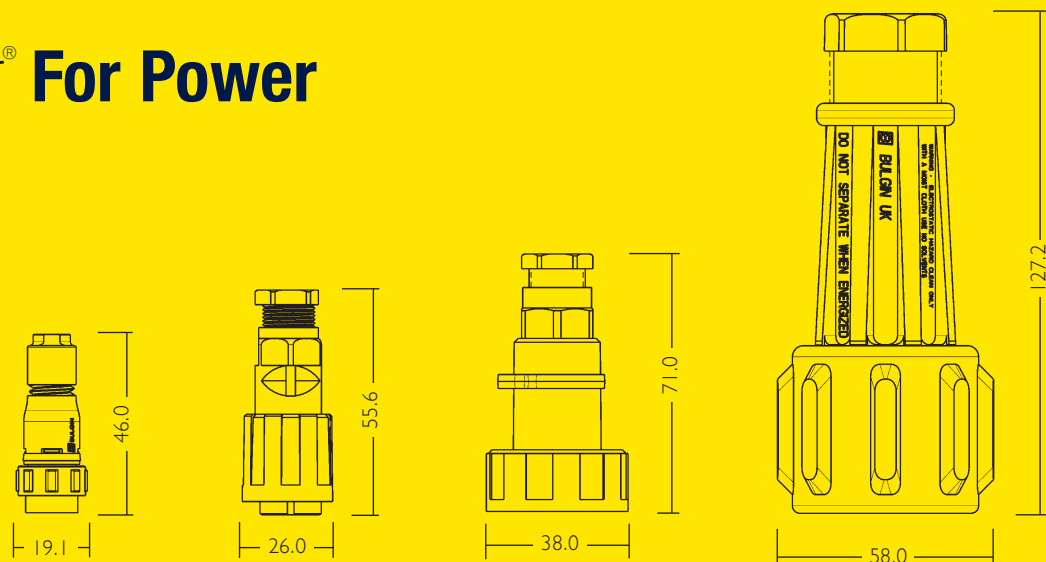
## SPECIFICATION

|                              |                                                                    |         |        |
|------------------------------|--------------------------------------------------------------------|---------|--------|
| Poles:                       | 2, 3                                                               | 4, 6, 8 | 10, 12 |
| Current Rating:              | 8A                                                                 | 5A      | 1A     |
| Voltage Rating:              | 250V                                                               | 125V    | 50V    |
| Operating Temperature:       | -40° to +80°C                                                      |         |        |
| Approvals:                   | UL, CSA* & VDE                                                     |         |        |
| Flammability Rating:         | UL94V-0                                                            |         |        |
| Sealing:                     | IP68, EN 60529:1992 tested @<br>15lb/sq in (10m depth) for 2 weeks |         |        |
| Cable Acceptance:            |                                                                    |         |        |
| PX0410 & PX0411              | 3.0 - 7.0mm                                                        |         |        |
| PX0400 & PX0401              | 2.5 - 9.0mm                                                        |         |        |
| Diameter over coupling ring: | 19.1mm                                                             |         |        |

\*approval pending



# Buccaneer® For Power



Outline drawings shown @ 50%

| MECHANICAL                      | 400 SERIES    | MINI                                       | STANDARD                                   | 900 SERIES    |
|---------------------------------|---------------|--------------------------------------------|--------------------------------------------|---------------|
| Sealing                         | IP68, EN60529 | IP68, EN60529                              | IP68, EN60529                              | IP68, EN60529 |
| Body Material                   | Polyamide     | Polyamide                                  | Glass Filled Polyamide                     | Polyamide     |
| Flammability Rating             | UL94V-0       | UL94V-0                                    | UL94V-HB                                   | UL94V-0       |
| Contact Material                | Copper Alloy  | Copper Alloy (crimp/solder), Brass (screw) | Brass (screw), Copper Alloy (Crimp/Solder) | Brass         |
| Contact Plating                 | Gold          | Gold (crimp/solder), Nickel (screw)        | Nickel (screw), Tin, Gold (Crimp/Solder)   | Nickel        |
| Cable Acceptance (dia.)         | 3.0-7.0mm     | 3.5-9mm                                    | 3.5-9mm                                    | 7-22mm        |
| Approvals (see spec for detail) | UL, CSA, VDE  | UL                                         | UL, CSA, VDE                               | UL, CSA, VDE  |

| ELECTRICAL               | 400 SERIES                  | MINI                                                                     | STANDARD                    | 900 SERIES               |
|--------------------------|-----------------------------|--------------------------------------------------------------------------|-----------------------------|--------------------------|
| 2 pole Rating            | 8A, 250V ac/dc              | 10A, 250V ac                                                             | 12A, 250V ac/dc (max.)      | 32A, 600V ac/dc          |
| Wire accommodation (max) | 0.5mm <sup>2</sup> , 20AWG  | 1mm <sup>2</sup> , 18AWG                                                 | 4mm <sup>2</sup> , 12AWG    | 4mm <sup>2</sup> , 10AWG |
| Termination              | Crimp/Solder/PCB            | Screw                                                                    | Screw                       | Screw                    |
| 3 pole Rating            | 8A, 250V ac/dc              | 5A, 380V ac Crimp/Solder; 10A, 250V ac screw                             | 12A, 250V ac/dc (max.)      | 32A, 600V ac/dc          |
| Wire accommodation (max) | 0.5mm <sup>2</sup> , 20AWG  | 0.5mm <sup>2</sup> , 20AWG Crimp/Solder; 1mm <sup>2</sup> , 18 AWG screw | 4mm <sup>2</sup> , 12AWG    | 4mm <sup>2</sup> , 10AWG |
| Termination              | Crimp/Solder/PCB            | Crimp/Solder or Screw                                                    | Screw/Crimp/PCB             | Screw                    |
| 4 pole Rating            | 5A, 125V ac/dc              | 6A, 250V ac                                                              | 10A, 250V ac/dc (max.)      | 32A, 600V ac/dc          |
| Wire accommodation (max) | 0.32mm <sup>2</sup> , 22AWG | 1mm <sup>2</sup> , 18AWG                                                 | 1.5mm <sup>2</sup> , 16AWG  | 4mm <sup>2</sup> , 10AWG |
| Termination              | Crimp/Solder/PCB            | Screw                                                                    | Screw/PCB                   | Screw                    |
| 5 pole Rating            | —                           | —                                                                        | —                           | 32A, 600V ac/dc          |
| Wire accommodation (max) | —                           | —                                                                        | —                           | 4mm <sup>2</sup> , 10AWG |
| Termination              | —                           | —                                                                        | —                           | Screw                    |
| 6 pole Rating            | 5A, 125V ac/dc              | 3A, 250V ac                                                              | 5A, 250V ac/dc (max.)       | —                        |
| Wire accommodation (max) | 0.32mm <sup>2</sup> , 22AWG | 1mm <sup>2</sup> , 18AWG                                                 | 1.5mm <sup>2</sup> , 16AWG  | —                        |
| Termination              | Crimp/Solder/PCB            | Screw                                                                    | Screw/PCB                   | —                        |
| 7 pole Rating            | —                           | —                                                                        | 5A, 250V ac/dc (max.)       | 32A, 430V ac/dc          |
| Wire accommodation (max) | —                           | —                                                                        | 1.5mm <sup>2</sup> , 16AWG  | 4mm <sup>2</sup> , 10AWG |
| Termination              | —                           | —                                                                        | Screw                       | Screw                    |
| 8 pole Rating            | 5A, 125V ac/dc              | 5A, 380V ac                                                              | —                           | —                        |
| Wire accommodation (max) | 0.32mm <sup>2</sup> , 22AWG | 0.5mm <sup>2</sup> , 20AWG                                               | —                           | —                        |
| Termination              | Crimp/Solder/PCB            | Crimp/Solder                                                             | —                           | —                        |
| 9 pole Rating            | —                           | —                                                                        | 5A, 150V ac/dc              | —                        |
| Wire accommodation (max) | —                           | —                                                                        | 0.2mm <sup>2</sup> , 24AWG  | —                        |
| Termination              | —                           | —                                                                        | Crimp/PCB                   | —                        |
| 10 pole Rating           | 1A, 50V ac/dc               | —                                                                        | —                           | 10A, 250V ac/dc          |
| Wire accommodation (max) | 0.2mm <sup>2</sup> , 24AWG  | —                                                                        | —                           | 1mm <sup>2</sup> , 18AWG |
| Termination              | Crimp/Solder/PCB            | —                                                                        | —                           | Screw                    |
| 12 pole Rating           | 1A, 50V ac/dc               | —                                                                        | 5A, 50V ac/dc               | —                        |
| Wire accommodation (max) | 0.2mm <sup>2</sup> , 24AWG  | —                                                                        | 0.32mm <sup>2</sup> , 22AWG | —                        |
| Termination              | Crimp/Solder/PCB            | —                                                                        | Crimp/Solder/PCB            | —                        |
| 25 pole Rating           | —                           | —                                                                        | 1A, 50V ac/dc               | —                        |
| Wire accommodation (max) | —                           | —                                                                        | 0.2mm <sup>2</sup> , 24AWG  | —                        |
| Termination              | —                           | —                                                                        | Crimp/Solder/PCB            | —                        |
| BNC RF connector         | —                           | 50 and 75Ω                                                               | 50 and 75Ω                  | —                        |



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