

# 6000 Series Buccaneer 2012

## Waterproof Circular Connectors

# Contents

---

- Introduction
- The Product
- Features
- The Range
- Technical Specifications
- Where would we sell it?
- Competitors
- Status



# 6000 Series Buccaneer

---

## Introduction



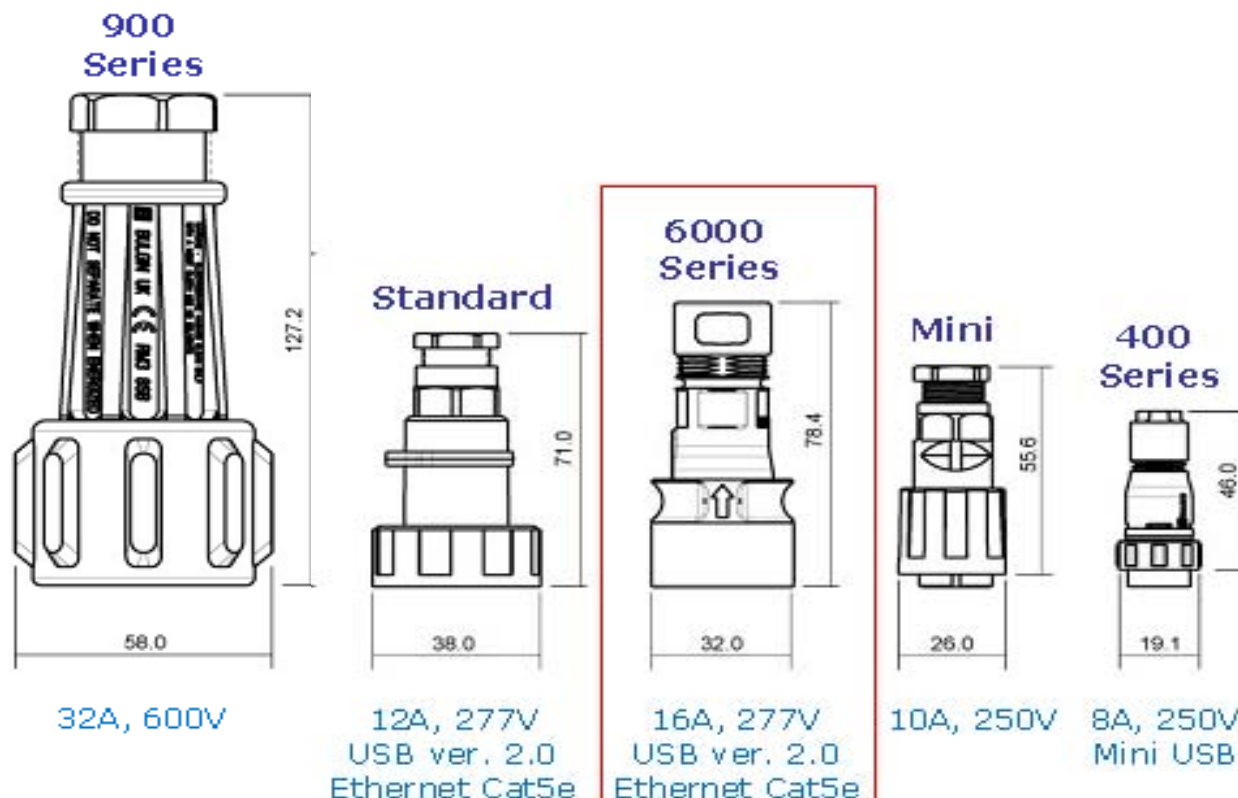
- A greatly demanded addition to Bulgin's Buccaneer connector ranges
- Quick coupling push / pull locking mechanism
- Circular connector with multiple environmental sealing ratings
- Interchangeable plastic and metal variants
- Power and data interfaces
- Superior performance to the Standard Buccaneer but in a smaller package

***Robust, instant connections for harsh environments***



# 6000 Series Buccaneer

## Introduction



# 6000 Series Buccaneer

## Technical Specification

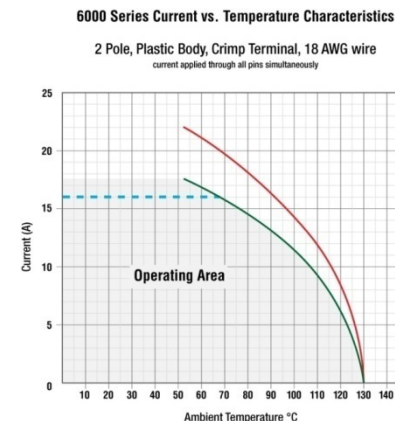
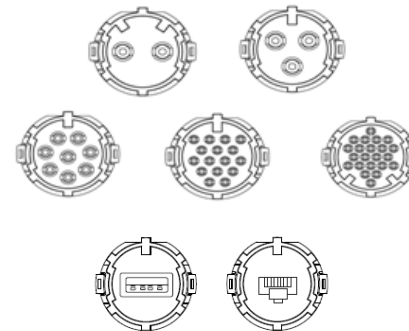
- IP66, IP68, IP69K rated, when unmated
- Push / pull mechanism
  - Unique locking
- Metal body
  - Brass, nickel plated
- Plastic body
  - Grey, PC/PBT
  - UL94-V0 flammability
  - halogen free, UV tested
- Temperature range
  - -40° to +120°C



# 6000 Series Buccaneer

## Technical Specification – continued

- Electrical rating
  - 2 & 3 pole – 16A, 277V max.
  - 8 pole – 10A, 277V max.
  - 16 pole – 3A, 60V max.
  - 22 pole – 2A, 60V max.
  - Ethernet cat5e,
  - USB ver 2.0 #
- Interchangeable contact carriers
  - For power contact carriers
- Cable range
  - 4 to 10mm
- Approvals (pending)
  - CCC, cULUS, VDE



# 6000 Series Buccaneer

## Features

- IP66, IP68 & IP69K rated
  - Independantly tested
  - Validated performance for most applications
  - Dust-proof, power hose, submersion
- Push / pull locking system
  - Quick and easy mating & un-mating
  - Reduced real estate required on panel
  - No expertise required to guarantee seal
  - Visual mating alignment indication
- Unique twist to lock
  - Quick 30° turn gives secure lock
  - Cannot be accidentally un-mated



# 6000 Series Buccaneer

---

## Features

- Metal & plastic connector body materials
  - Interchangeable connectors – metal <0> plastic
- Metal
  - Brass, nickel plated
  - Rugged construction
  - Cable screen accessory for EMI applications
  - Ideal for extreme environments
- Plastic
  - Grey, PC/PBT blend
  - UV stable, UL94-V0 rated, Halogen free
  - Light, robust, lower cost solution
  - Ideal for long-term outdoor applications





# 6000 Series Buccaneer

---

## Features

- Power & Signal versions
  - Scoop-proof design (IEC 60512-4 BS5772)
- Power connections
  - Contact carriers interchangeable in all bodies
  - 2 to 22 pole, up to 16A, 277V
  - Screw terminal (2 & 3 pole), Crimp (2 to 22 pole)
- Data connections
  - USB ver.2 (ver.3 planned)
    - Only available in plastic
  - Ethernet shielded Cat5e
    - Ethernet is sealed through panel



# 6000 Series Buccaneer

---

## Features

- Colour coding for bodies
  - Customer can colour code bodies for easy identification
- Proven sealing design
  - One-piece body reduces risk of leaks
  - 'Tried and tested' collet & gland system
- Complete sealing solution
  - Everything is included to ensure sealing performance
  - Sealing caps maintain sealing when connector is un-mated



# 6000 Series Buccaneer

## The Product



# 6000 Series Buccaneer

---

## The Range



### **Flex body**

Mates with:  
Flex in-line &  
Chassis  
connectors



### **Flex in-line body**

Mates with:  
Flex connector



### **Chassis body**

Mates with:  
Flex connector



### **Accessories**

Sealing caps:  
Maintain sealing  
whilst connector  
is un-mated



# 6000 Series Buccaneer

---

## Where Would We Sell it?

Designed for a broad range of harsh environments

- Two material options
  - metal - rugged, EMI protected interfaces
  - plastic - robust, lightweight , lower cost

The applications for this new series are wide and typified by the environment in which they are deployed

- IP66, IP68 and IP69K – dust and water proof
- Indoor and outdoor environments



# 6000 Series Buccaneer

---

## Where Would We Sell it?

### Industrial Automation

- assembly systems
- conveyors
- factory automation
- factory peripherals
- industrial computers
- industrial controllers
- measurement and inspection equipment
- motion and process control
- testing equipment
- vision systems





# 6000 Series Buccaneer

## Where Would We Sell it?

### Food Processing

- feeding equipment
- inspection equipment
- packaging equipment
- printing equipment
- test & weighing equipment



### Lighting

- architectural
- signage
- portable & temporary



# 6000 Series Buccaneer

---

## Where Would We Sell it?

### Transportation

- special vehicles
- GPS location systems
- control equipment
- traffic control



### Leisure Marine

- lighting
- control wiring
- navigation equipment





# 6000 Series Buccaneer

---

## Where Would We Sell it?

### Security

- alarm beacons
- CCTV
- detection systems



### Networking

- LAN and wireless equipments



### Renewable Energy

- solar inverters



# 6000 Series Buccaneer

---

## Competitors

Many potential competitors – large & small – global & local.

Here are some of the majors for ‘industrial’ style connectors – there are many more who supply Mil Spec products

- Amphenol
  - IP66 or IP68 (different ranges)
  - metal & plastic – push-pull, screw & tri-start coupling
  - power, signal & data versions (not same range)
- Alden – now part of Amphenol
  - mainly IP67 (different ranges)
  - plastic – push-pull coupling
  - power, signal & data versions (not same range)



# 6000 Series Buccaneer

---

## Competitors – continued

- LTW – now part of Amphenol
  - mainly IP68
  - metal & plastic – screw & tri-start coupling
  - power, signal & data versions (not same range)
- Binder
  - mainly IP67 (different ranges)
  - metal & plastic – screw coupling (push-pull on smaller diameter)
  - power & signal
- Conec
  - IP67
  - metal & plastic – tri-start & screw coupling
  - data versions



# 6000 Series Buccaneer

---

## Competitors – continued

- Contact Connectors
  - IP67
  - metal & plastic – screw coupling
  - power & signal
- Conxall (Switchcraft)
  - IP67
  - metal & plastic – tri-start & screw coupling
  - power & signal
- Deutsch
  - IP67 or IP68 (different ranges)
  - plastic – push-pull & tri-start coupling
  - power & signal



# 6000 Series Buccaneer

---

## Competitors – continued

- ITT Cannon
  - IP67 or IP69K (different ranges)
  - metal & plastic – push-pull & tri-start coupling
  - power & signal
- Lemo
  - IP66 or IP68
  - metal & plastic – push-pull coupling
  - power & signal
- Samtech
  - IP68
  - metal & plastic – screw coupling
  - power, signal & data versions (not same range)



# 6000 Series Buccaneer

---

## Competitors – continued

- Souriau
  - IP66, IP68 & IP69K (UTS range)
  - metal & plastic – tri-start coupling
  - power, signal & data versions (UTS range)
- Tyco
  - mainly IP67 (different ranges)
  - plastic – tri-start & screw coupling
  - power, signal & data versions (different ranges)
- Wieland
  - IP68
  - plastic – push-pull coupling
  - Power & signal versions



This is not a definitive list of competitors



# 6000 Series Buccaneer

---

## Status

- Metal version launch 1<sup>st</sup> August 2012
- Plastic version launch 1<sup>st</sup> August 2012
- Approvals expected:
  - CCC – December 2012
  - cULus - December 2012
  - VDE - December 2012
- Standard lead-time 6 to 8 weeks

