400 Series Buccaneer®

IP68

Contact Retainer
Sealing Gasket
O Ring
Contacts
Retaining Nut
Panel Body
Locking Ring
O Ring
Main Body
Contacts
Contact Carrier
Cable Gland
Collet
Gland Nut
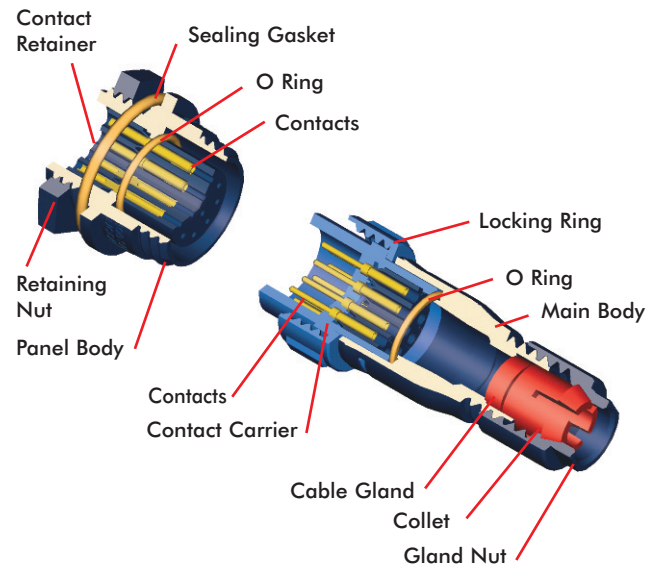
BUCCANEER POWER

- Sealed to IP68 when mated
- IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- 2 and 3 pole - 8A, 250V rating
- 4, 6 and 8 pole - 5A, 125V rating
- 10 and 12 pole - 1A, 50V rating
- 2.5mm contact engagement for electrical integrity
- 'Scoop proof' contacts
- Contact inserts are part of body moulding
- Cable range from 3 to 7mm
- Overall length (flex + flex in-line) 80mm
- Gold plated contacts
- Diameter over coupling ring 19.1mm
- Pre-wired, overmoulded cable assemblies

- Flex, Flex In-Line, Front Panel, Rear Panel and PCB mounting body styles
- Plug and Socket versions in all body styles
- Flame Retardant moulding material - Polyamide UL94-V0
- Contacts supplied separately (except PCB versions)
- Sealing caps available to maintain IP68 rating
- Secure sealing system
- Crimp and solder contacts
- PCB mounting connector supplied with contacts pre-loaded
- Front and rear panel mounting panel connectors
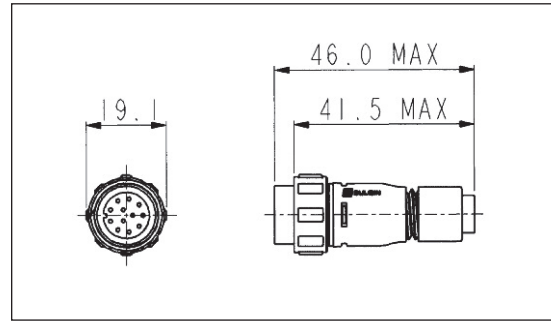- UL, CSA and VDE approvals

400 Series Buccaneer
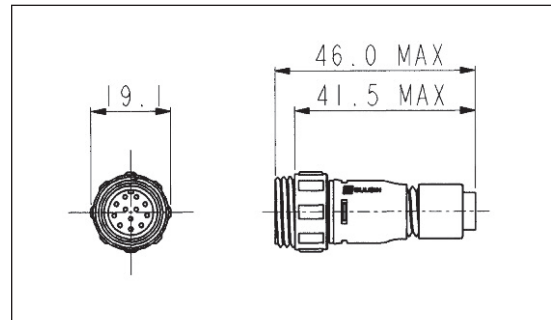

FLEX CABLE CONNECTOR

- Mates with Flex In-line or Panel mounting versions PX0401, PX0411, PX0412 & PX0413
- Pin or socket
- 2, 3, 4, 6, 8, 10 or 12 pole
- Screw locking ring
- Contacts supplied separately

PX0410/P   PX0410/S
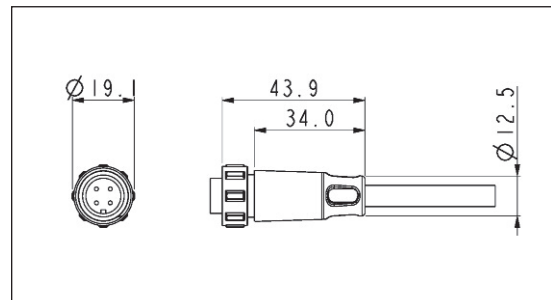

IN-LINE FLEX CABLE CONNECTOR

- Mates with Flex Cable connectors PX0400, PX0402 & PX0410
- Pin or socket
- 2, 3, 4, 6, 8, 10 or 12 pole
- For in-line cable connection
- Contacts supplied separately

PX0411/P   PX0411/S

PRE-WIRED FLEX CONNECTOR

- Overmoulded Flex connector for pre-wired cable assemblies
- Pin or socket
- Cable range 2.5 - 9.0mm o/d
- 2, 3, 4, 6, 8, 10 or 12 pole
- Mates with PX0401 & PX0411 Flex In-Line connectors and PX0412 & PX0413 panel mounting connectors

PX0400

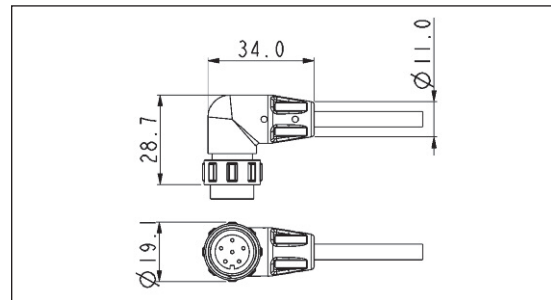---

PRE-WIRED FLEX CONNECTOR

- Right-angled overmoulded Flex connector for pre-wired cable assemblies
- Pin or socket
- Cable range 2.5 - 9.0mm o/d
- 2, 3, 4, 6, 8, 10 or 12 pole
- Mates with PX0401 & PX0411 Flex In-Line connectors and PX0412 & PX0413 panel mounting connectors

PX0402

PRE-WIRED IN-LINE FLEX CONNECTOR

- Overmoulded Flex connector for pre-wired cable assemblies
- Pin or socket
- Cable range 2.5 - 9.0mm o/d
- 2, 3, 4, 6, 8, 10 or 12 pole
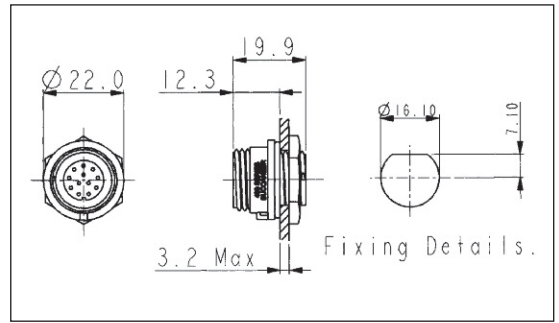- Mates with PX0400, PX0402 & PX0410 Flex connectors
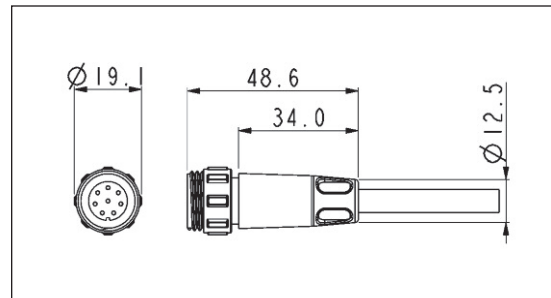
PX0401

FRONT PANEL MOUNTING CONNECTOR

- Mates with Flex Cable connectors PX0410, PX0400 & PX0402
- Front Panel mounting
- Single hole fixing
- Contacts supplied separately
- 2, 3, 4, 6, 8, 10 or 12 pole

PX0412/P   **PX0412/S**

REAR PANEL MOUNTING CONNECTOR

- Mates with Flex Cable connector PX0410, PX0400 & PX0402
- Rear Panel mounting
- Single hole fixing
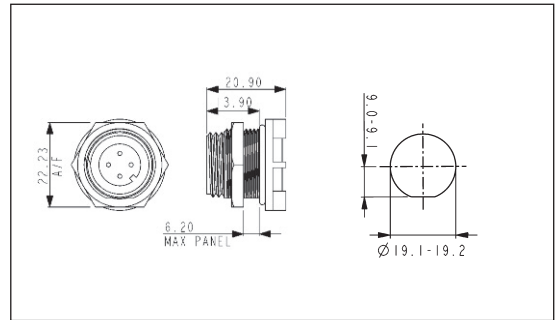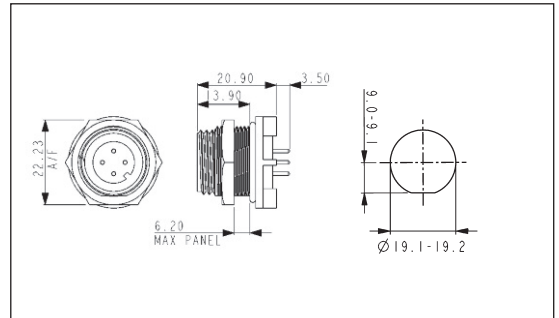- Contacts supplied separately
- 2, 3, 4, 6, 8, 10 or 12 pole

PX0413/xxP   **PX0413/xxS**

PCB MOUNTING CONNECTOR

- Mates with Flex Cable connector PX0410, PX0400 & PX0402
- PCB Rear Panel mounting
- Straight PC spills
- Supplied with pre-loaded gold plated contacts
- 2, 3, 4, 6, 8, 10 or 12 pole

PX0413/xxP/PC   **PX0413/xxS/PC**

SEALING CAPS AND ACCESSORIES

- Maintains IP68 Rating of Unmated Connectors
- PX0480: Fits PX0412 (panel mounting)
- PX0480/1: Fits PX0401 & PX0411 (flex in-line)
- PX0481: Fits PX0400, PX0402 & PX0410 (flex connector)
- PX0484: Fits PX0413 (PCB and rear panel mount)

PX0480   PX0480/1   PX0481   PX0484

GLAND PACKS

Part No	Description
PX0482	Pack of 4 pairs cable glands and collets to suit cables from 3.0 to 5.0mm diameter.
PX0483	Pack of 4 pairs cable glands and collets to suit cables from 5.0 to 7.0mm diameter.

BUCCANEER POWER

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400 Series Buccaneer

CRIMP CONTACTS

Pole	Current Rating	Pin	Socket	Pack Qty	Cable Acceptance (dia)
2, 3	8A	SA3350	SA3349	10	20 - 24 AWG
4, 6, 8	5A	SA3348	SA3347	10	22 - 26 AWG
10, 12	1A	SA3180	SA3179	10	24 - 28 AWG

SOLDER CONTACTS

Pole	Current Rating	Pin	Socket	Pack Qty	Cable Acceptance (dia)
2, 3	8A	SA3350/1	SA3349/1	10	20 - 24 AWG
4, 6, 8	5A	SA3348/1	SA3347/1	10	22 - 26 AWG
10, 12	1A	SA3180/1	SA3179/1	10	24 - 28 AWG

CONTACT INSERTION TOOLS

	Poles	Contact rating	Colour	Part No
Insertion/Extraction Tool	2,3	8A	Blue	13027/2
Insertion/Extraction Tool	4,6,8	5A	Red	13027/1
Insertion/Extraction Tool	10,12	1A	Green	13027

CRIMP TOOLS

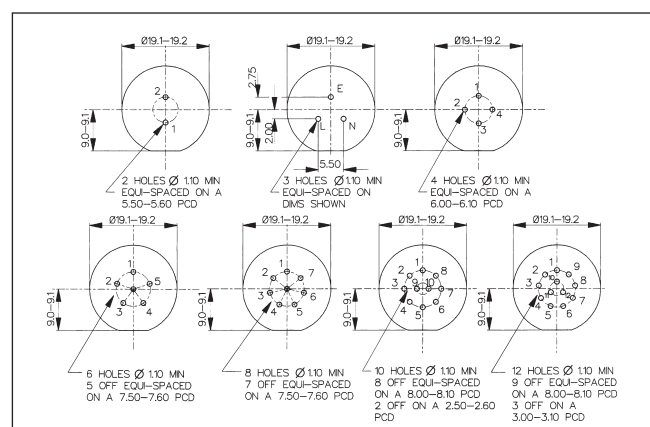|	Pole	Contact rating	Colour	Part No
Positioner	2,3	8A	Blue	14025/8AMP
Positioner	4,6,8	5A	Red	14025/5AMP
Positioner	10,12	1A	Green	14025/1AMP
8 Indent Crimp Tool for use with positioners				14025

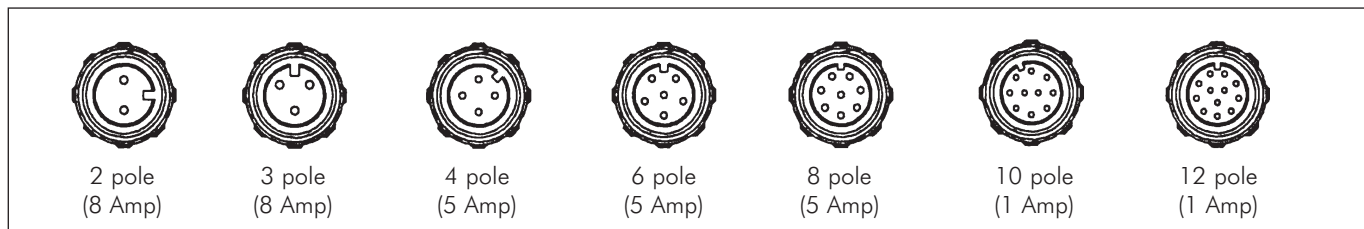### PCB CONTACT LAYOUT

Sockets

Contact numbers viewed from rear of panel
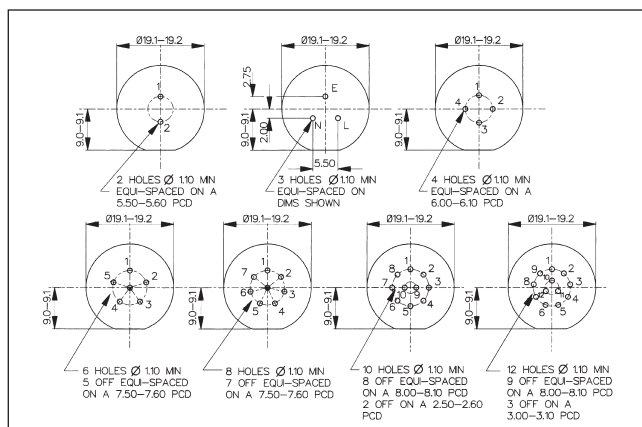
Plugs

Contact numbers viewed from rear of panel

CONTACT LAYOUT

| 2 pole (8 Amp) | 3 pole (8 Amp) | 4 pole (5 Amp) | 6 pole (5 Amp) | 8 pole (5 Amp) | 10 pole (1 Amp) | 12 pole (1 Amp) |

SPECIFICATION

Electrical:

Poles:	2, 3	4, 6, 8	10, 12
Current Rating:	8A	5A	1A
Voltage Rating:	250Vac/dc	125Vac/dc	50Vac/dc

Contact Resistance:	<5mΩ
Insulation Resistance:	>10^{6}MΩ (@ 500V d.c.)
AC Breakdown Voltage:	2.5kV

Operating Temperature:
  Flex and panel types —40°C to +80°C
  Overmoulded —20°C to +85°C

Approvals:
  UL: [UL] E214972
  CSA: [CSA] 1273303
  VDE: [VDE] 40002226
  CCC: [CCC] 2011010203500398 – 1 Amp Rated
          2011010203500399 – 5 Amp Rated
          2011010203500400 – 8 Amp Rated

Approvals pending for PX0413 series.
Overmoulded cable assemblies approvals to
customer requirements.

Material:

Flex and panel types:
  Body Mouldings: Polyamide
  Flammability Rating: UL94V-0
  UV Resistance: To EN 50021:1999

Overmoulded types:
  Body Mouldings: Polyurethane
  Flammability Rating: UL94V-HB

Contacts:	Copper alloy, Gold plated
O Rings:	Nitrile
Panel Sealing O Ring:	Nitrile
RoHS	Compliant

Mechanical:

Sealing:	IP68, EN 60529 tested @ 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
Cable Acceptance:	3.0 - 7.0mm
Contact Accommodation:	2, 3 pole, 20 - 24 AWG 4, 6, 8 pole, 22 - 26 AWG 10, 12 pole, 24 - 28 AWG
Termination:	Crimp, solder and PCB

Insertion/Withdrawal Force:

No. poles:	2	3	4	6	8	10	12
Insertion Force (typ):	19N	25N	27N	27N	28N	55N	62N
Withdrawal Force (typ):	12N	17N	17N	21N	22N	25N	29N

Tightening Torques:
  Panel mount (PX0412)
  Rear fixing nut: 1.0-1.1Nm (9lbf.in.)
  Panel mount (PX0413)
  Front fixing nut: 1.0-1.1Nm (9lbf.in.)

Cable Retention force:
  3mm dia 60N
  4.7mm dia 80N

Rear panel thread PX0412:	M16x1.5
Panel thread PX0413:	18.97x26TPI Whitworth form to BS84 med fit

Dimensions:

Overall dimensions of connectors when mated together

Flex + Flex In-Line	80mm
Dia. over coupling ring	19.1mm

BUCCANEER FOR POWER

400 Series Buccaneer

PART NO. SYSTEM

PX04xx / xx x / xxxx

Body Styles
PX0410 = Flex body
PX0411 = Flex in-line body
PX0412 = Front panel mounting body
PX0413 = Rear panel/PCB mounting body

Number Contacts
02 = 2 pole, **03** = 3 pole, **04** = 4 pole, **06** = 6 pole
08 = 8 pole, **10** = 10 pole, **12** = 12 pole

Contact Type
P = Pin, **S** = Socket

For PX0410 and PX0411 cable connectors - Cable Entry Size:

3035 = 3.0 - 3.5mm	(Light Grey)	**5055** = 5.0 - 5.5mm	(Yellow)
3540 = 3.5 - 4.0mm	(Grey)	**5560** = 5.5 - 6.0mm	(Blue)
4045 = 4.0 - 4.5mm	(Green)	**6065** = 6.0 - 6.5mm	(White)
4550 = 4.5 - 5.0mm	(Red)	**6570** = 6.5 - 7.0mm	(Black)

Cable gland and collet supplied in colour coded pairs.

For PX0413 PCB/Rear Panel Mount:
PC = Pre-loaded PC pins
Blank = no pins supplied

For PX0412 Front Panel Mount:
Suffix not required - leave blank

Examples:
PX0410/10S/4045 = Flex cable connector, 10 socket contacts with gland and collet for cables between 4.0 and 4.5mm diameter (supplied less contacts).
PX0412/08P = Front panel mounting connector, 8 pin contacts (supplied less contacts.)
PX0413/06P = Rear panel mounting connector, for 6 pin contacts (supplied less contacts).
PX0413/04P/PC = Rear panel/PCB connector, 4 pin contacts, PCB mounting (supplied with contacts loaded).

ORDERING INFORMATION

- Determine body style, i.e. PX0410 = flex body, PX0411 = flex in-line body.
- Determine number of contacts & type, i.e. 02 = 2 way, P = pin contacts.
- Determine cable range, i.e. 3035 = 3.0 to 3.5mm cable accommodation, not required for PX0412 or PX0413 (panel connectors).
- Choose appropriate contacts pack, i.e. SA3350 = pin contacts suitable for 2 & 3 way connectors, supplied in pack quantities of 10. Not needed for PX0413/PC as pre-loaded.
- Is a sealing cap required?
- Is an insertion tool required?
- Is a crimp tool required?

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