# 400 Series Buccaneer

bulgin

- IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks

- IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k

- 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

- CCC, UL, CSA and VDE approvals

- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

- Smart options available with EEPROM memory chip

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
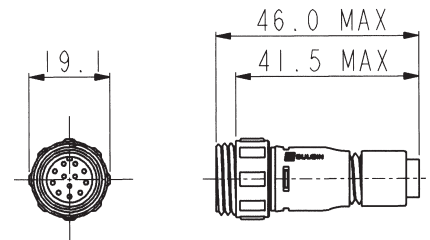- Contacts supplied separately

PX0410

19.1   46.0 MAX / 41.5 MAX
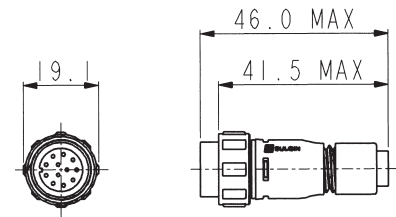
Inline Flex Cable Connector

- 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
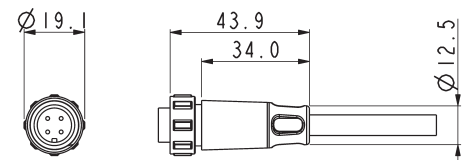- Contacts supplied separately

PX0411

19.1   46.0 MAX / 41.5 MAX

Pre Wired Flex Cable 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
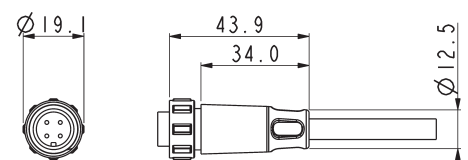
PX0400

Ø19.1   43.9 / 34.0   Ø12.5

Smart Connector

- Overmoulded pre-wired sealed connector
- 4, 6, 8, 10, 12 pole
- Embedded memory chip through 1 wire EEPROM
- Mates with PX0401 & PX0411 Flex In-Line connectors and PX0412 & PX0413 panel mounting connectors
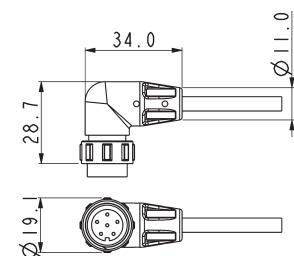
PXS4 XX

Ø19.1   43.9 / 34.0   Ø12.5

Pre Wired Flex Cable 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
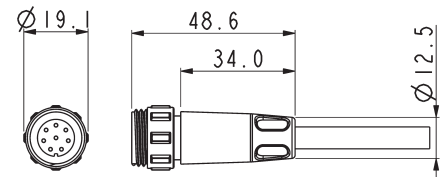- Mates with PX0401 & PX0411 Flex In-Line connectors and PX0412 & PX0413 panel mounting connectors

PX0402

34.0   Ø11.0   28.7   Ø19

Pre Wired Inline 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
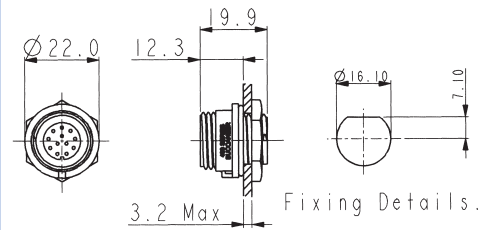- Mates with PX0400, PX0402 & PX0410 Flex connectors

PX0401

Ø19.1   48.6   34.0   Ø12.5

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

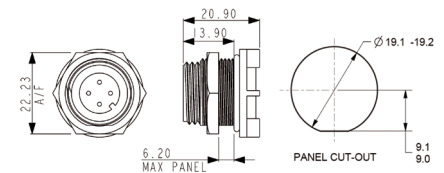Ø22.0   12.3   19.9   Ø16.10   7.10   3.2 Max   Fixing Details.

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

20.90   3.90   Ø19.1 -19.2   22.23 A/F   6.20 MAX PANEL   PANEL CUT-OUT   9.1 9.0

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

20.90   3.90   3.50   Ø19.1 -19.2   22.23 A/F   6.20 MAX PANEL   PANEL CUT-OUT   9.1 9.0
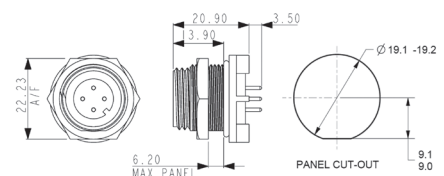
Sealing Caps and Accessories

- 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.

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

Insertion / Extraction

	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

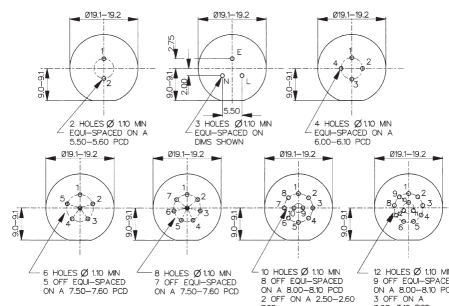|	Poles	Contact Rating	Colour	Part No
Positioner	2,3	8A	Blue	14025/8AMP
Positioner	4,6,8	5A	Red	14025/5AMP
Positioner	10,12	1A	Green	14025/1AMP
8 Indent Crimp Tool for use with positioners				14025

PX0413 PCB Contact Layout

Sockets
Contact numbers viewed from rear of panel
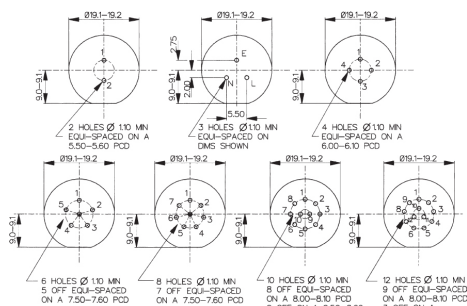
Plugs
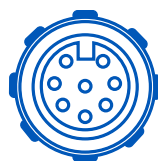Contact numbers viewed from rear of panel
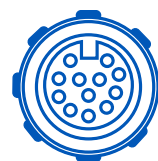

2 pole (8 Amp)

3 pole (8 Amp)

4 pole (5 Amp)

6 pole (5 Amp)

8 pole (5 Amp)

10 pole (1 Amp)

12 pole (1 Amp)

Electrical:

No. Poles:	2, 3	4, 6, 8	10, 12
Current Rating:	8A	5A	1A
Voltage Rating (ac/dc):	250Vac/dc	125Vac/dc	50Vacdc

Contact Resistance: $<5m\Omega$
Insulation Resistance: $>10^6 M\Omega$ (@ 500V d.c.)
AC Breakdown voltage: 2.5kV

Operating Temperature:
Flex and panel types –40°C to +80°C
Overmoulded –20ºC to +60ºC

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

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: IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k

IP68, EN60529:1992+A2:2013 tested @ 1.054kg/sq cm
(15lb/sq in) 10m depth for 2 weeks

Salt Mist: EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

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:
3.0mm dia 60N
4.0 to 7.0mm 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

Dia. over coupling ring

Smart Connector EEPROM:

1024 - Bit Memory

1 - Wire

Can be Write Protected

Manufacturer - Maxim Intergrated

Part Number - 0S2431

Standard:

PX04 xx	/	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)
3540 = 3.5 - 4.0mm (Grey)
4045 = 4.0 - 4.5mm (Green)
4550 = 4.5 - 5.0mm (Red)

5055 = 5.0 - 5.5mm (Yellow)
5560 = 5.5 - 6.0mm (Blue)
6065 = 6.0 - 6.5mm (White)
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).

Smart:

PXS4xx	/	XX	/	XX	/	X

Body Styles

PXS410 = Flex body

Cable length

02 = 2m
03 = 3m
05 = 5m
10 = 10m

Number of Contacts

04 = 4 poles
06 = 6 pole
08 = 8 pole
10 = 10 pole
12 =12 pole

Contact Type

P = Pin
S = Socket

Examples:

PXS410/02/04/P = Smart flex cable connector, 2M cable to free end, 4 pin contact

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