

The **400 vitalis Buccaneer** series is engineered for applications where performance and responsible material use matter equally. Its outer casing contains up to **53% bio-based plastic** (mass-balanced approach) a more **sustainable alternative** to conventional fossil-based plastics, with no compromise in strength, reliability or durability in harsh environments.



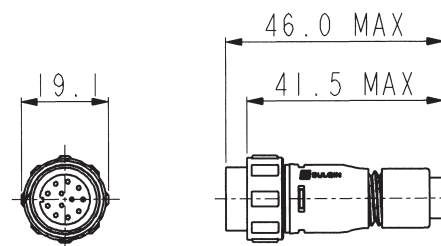

- 400 **vitalis** Buccaneer products contain up to 53% bio-based content by weight (mass-balanced approach)
- Bio-based plastics enable Product Carbon Footprint (PCF) reductions
- IP69K, tested in accordance with BS ISO 20653:2023
- IP68, EN60529:1992+A2:2013 tested @ 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- Sealing caps available to maintain IP68 rating
- 2 and 3 Contact - 8A, 250V rating
- 4, 6 and 8 Contact - 5A, 125V rating
- 10 and 12 Contact - 1A, 50V rating
- 'Scoop proof' contacts with 2.5mm engagement for electrical integrity
- Gold plated contacts
- Crimp and solder contacts
- Contacts supplied separately — PCB versions supplied with contacts pre-loaded
- Contact inserts are part of body moulding
- Five body styles: flex, inline, front panel, rear panel and PCB mounting
- Plug and Socket versions in all body styles
- Flame Retardant moulding material - Polyamide UL 94 V-0
- Cable acceptance range from 3 to 7mm
- Overall length (Flex + Inline) 80mm
- Diameter over coupling ring 19.1mm
- VDE and cULus approvals pending

Flex Cable Connector



PXV0410

- Average PCF reduction of 6.3kg CO₂e per 100 units
- Mates with Inline or Panel mounting versions
- Plug or socket
- 2, 3, 4, 6, 8, 10 or 12 Contact
- Screw locking ring
- Contacts supplied separately

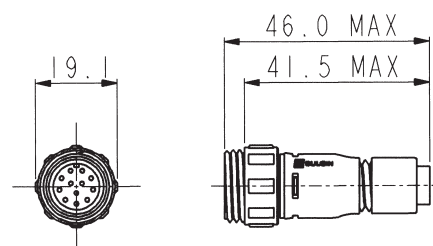


Inline Cable Connector



PXV0411

- Average PCF reduction of 6.1kg CO₂e per 100 units
- Mates with Flex Cable connector versions
- Plug or socket
- 2, 3, 4, 6, 8, 10 or 12 Contact
- For Inline cable connection
- Contacts supplied separately

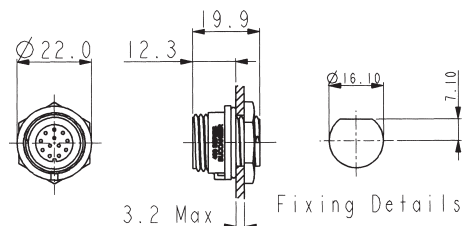


Front Panel Mounting Connector



PXV0412

- Average PCF reduction of 3.4kg CO₂e per 100 units
- Mates with Flex Cable connector versions
- Plug or socket
- 2, 3, 4, 6, 8, 10 or 12 Contact
- Single hole fixing
- Contacts supplied separately

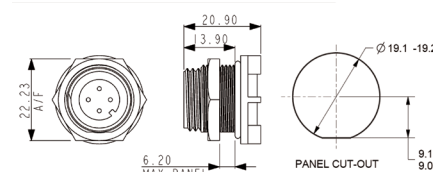


Rear Panel Mounting Connector



PXV0413

- Average PCF reduction of 4.3kg CO₂e per 100 units
- Mates with Flex Cable connector versions
- Plug or socket
- 2, 3, 4, 6, 8, 10 or 12 Contact
- Single hole fixing
- Contacts supplied separately

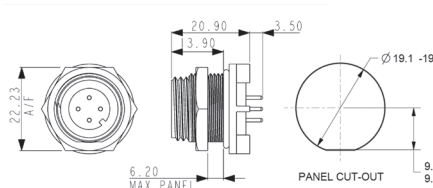


PCB Mounting Connector



PXV0413/XXX/PC

- Average PCF reduction of 4.3kg CO₂e per 100 units
- Mates with Flex Cable connector versions
- Plug or socket
- 2, 3, 4, 6, 8, 10 or 12 Contact
- PCB Rear Panel mounting
- Straight Contacts from rear of body
- Supplied with pre-loaded gold plated contacts



Sealing Caps



PXV0480 | PXV0484 | PXV0480/1 | PXV0481

- Maintains IP68 Rating of Unmated Connectors
- PXV0480: Fits PXV0412 Panel mounting connectors
- PXV0480/1: Fits PXV0411 Inline cable connectors
- PXV0481: Fits PXV0410 Flex cable connectors
- PXV0484: Fits PXV0413 PCB and Rear Panel Mounting connectors

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

Contact	Current Rating	Plug Part No.	Socket Part No.	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

Contact	Current Rating	Plug Part No.	Socket Part No.	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

	Contacts	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

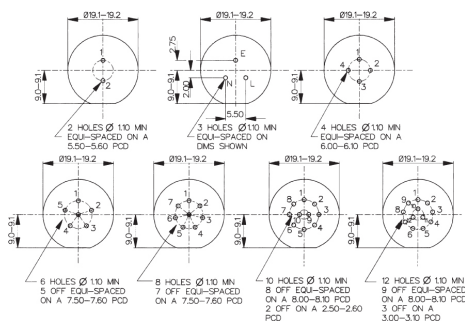
Crimp tools

	Contacts	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

PXV0413 PCB Contact Layout

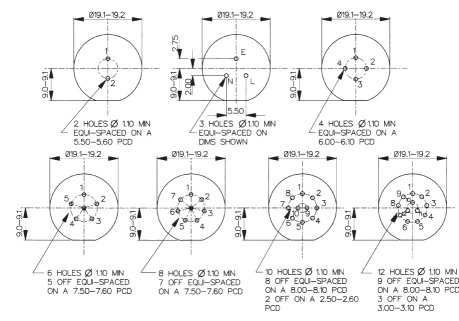
Sockets

Contact numbers viewed from rear of panel



Plugs

Contact numbers viewed from rear of panel



2 Contact
(8 Amp)



3 Contact
(8 Amp)



4 Contact
(5 Amp)



6 Contact
(5 Amp)



8 Contact
(5 Amp)



10 Contact
(1 Amp)



12 Contact
(1 Amp)

Electrical:

No. Contacts:	2, 3	4, 6, 8	10, 12
Current Rating:	8A	5A	1A
Voltage Rating:	250V AC/DC	125V AC/DC	50V AC/DC
Contact Resistance:	<5mΩ		
Insulation Resistance:	>10 ⁶ MΩ (@ 500V DC)		
AC Breakdown voltage:	2.5kV		
Cycles:	>1000		

Operating Temperature:
Flex and panel types -40°C to +80°C

Approvals:

 cULus (Underwriters Laboratory)	Pending
 VDE (Verband der Elektrotechnik)	Pending

Material:

Body Mouldings:	Bio-based Polyamide
Flammability Rating:	UL 94 V-0
Contacts:	Copper alloy, Gold plated
O Rings:	Nitrile
Panel Sealing O Ring:	Nitrile
RoHS	Compliant

Bio-based plastics enable Product Carbon Footprint (PCF) reductions

Dimensions:

Overall dimensions of connectors when mated together

Flex + Inline:	80mm
Dia. over coupling ring:	19.1mm

Mechanical:

Sealing:	IP69K, Tested in accordance with BS ISO 20653:2023
	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 Contact, 20 - 24 AWG 4, 6, 8 Contact, 22 - 26 AWG 10, 12 Contact, 24 - 28 AWG
Termination:	Crimp, solder and PCB
Insertion/Withdrawal Force:	
No. Contacts:	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 (PXV0412)	
Rear fixing nut:	1.0-1.1Nm (9lbf.in.)
Panel mount (PXV0413)	
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 PXV0412:	M16x1.5
Panel thread PXV0413:	18.97x26TPI Whitworth form to BS84 med fit

PXV041X	/	XX	/	X	/	XXXX
Body Styles PXV0410 = Flex body PXV0411 = Inline body PXV0412 = Front panel mounting body PXV0413 = Rear panel/PCB mounting body		Number of Contacts 02 03 04 06 08 10 12		Contact Type P = Plug S = Socket		For PXV0410 and PXV0411 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 PXV0413 PCB/Rear Panel Mount: PC = Pre-loaded PC Plugs Blank = no Plugs supplied For PXV0412 Front Panel Mount: Suffix not required - leave blank

Examples:

PXV0410/10S/4045 = Flex cable connector, 10 socket contacts with gland and collet for cables between 4.0 and 4.5mm diameter (supplied without contacts).
PXV0412/08P = Front panel mounting connector, 8 Plug contacts (supplied less contacts).
PXV0413/06P = Rear panel mounting connector, for 6 Plug contacts (supplied less contacts).
PXV0413/04P/PC = Rear panel/PCB connector, 4 Plug contacts, PCB mounting (supplied with contacts loaded).