

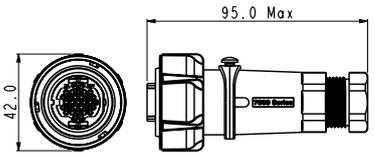
7000 Series Buccaneer

The 7000 Series Buccaneer offers high power in a compact form factor for its class. Available in rugged plastic or metal constructions, these multi pin circular connectors combine an easy to use quick bayonet coupling mechanism with proven environmental sealing for signal and mains power.

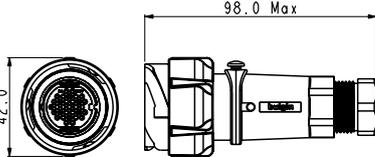


- Flex Cable Connectors
- Water & Dustproof to IP66, IP68, IP69K when mated with Compatible Connector
- Quick Turn Locking Ring with less than Quarter Turn Locking & Positive Feedback
- 2, 3, 6, 10, 32 Pole with leading Earth Contact on 3 Pole Versions
- Screw, Crimp / Solder Terminations available, depending on Part Code; Screw Contacts supplied fitted, Crimp / Solder Contacts & Fitting Tools available separately
- Plastic Body (Part Codes Prefixed PXP)
- Metal Body (Part Codes Prefixed PXM). Cable Braid Termination Option supplied with Part Codes suffixed /SN or available separately (Part Code PXM7090)
- Choice of Cable Acceptance 5mm-15mm Diameter depending on Part Code (see Data for Details)
- PXP7081/PXM7081 Sealing Cap available separately to maintain IP Rating of Unmated Connectors
- Mate with PXP7011/PXM7011 Series Flex In-Line & PXP7012/PXM7012 Series Front Panel Mount

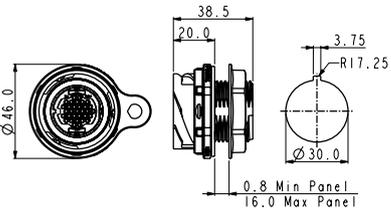
7000 Series Buccaneer

<p>Flex Cable Connector</p>  <p style="text-align: right; color: blue;">PXP7010</p>	<ul style="list-style-type: none"> ⊕ Mates with In-Line Flex or Panel ⊕ Mounting Versions PXP7011 & PXP7012 ⊕ Quick Turn Locking Ring ⊕ Leading Earth on 3 Pole Connectors ⊕ Screw Solder & Crimp Termination 	
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

Pin Contacts	Socket Contacts	Pole Count	Termination	Contacts
PXP7010/02P/ST	PXP7010/02S/ST	02	Screw	Supplied Fitted
PXP7010/03P/ST	PXP7010/03S/ST	03	Screw	Supplied Fitted
PXP7010/06P/ST	PXP7010/06S/ST	06	Screw	Supplied Fitted
PXP7010/10P/CR	PXP7010/10S/CR	10	Crimp / Solder	Contact Required
PXP7010/32P/CRP	PXP7010/32S/CR	32	Crimp / Solder	Contact Required

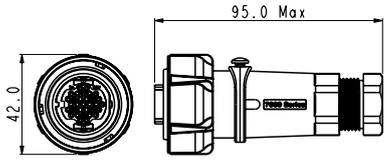
<p>In-line Flex Cable Connector</p>  <p style="text-align: right; color: blue;">PXP7011</p>	<ul style="list-style-type: none"> ⊕ Mates with Flex Cable PXP7010 ⊕ For In-Line Cable Connection ⊕ Leading Earth on 3 Pole Connectors ⊕ 2, 3, 6, 10 & 32 Pole ⊕ Screw Solder & Crimp Termination 	
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------

Pin Contacts	Socket Contacts	Pole Count	Termination	Contacts
PXP7011/02P/ST	PXP7011/02S/ST	02	Screw	Supplied Fitted
PXP7011/03P/ST	PXP7011/03S/ST	03	Screw	Supplied Fitted
PXP7011/06P/ST	PXP7011/06S/ST	06	Screw	Supplied Fitted
PXP7011/10P/CR	PXP7011/10S/CR	10	Crimp / Solder	Contact Required
PXP7011/32P/CR	PXP7011/32S/CR	32	Crimp / Solder	Contact Required

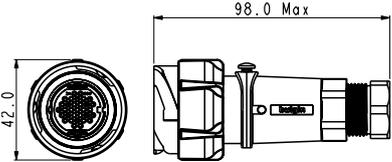
<p>Front Panel Mounting Connector</p>  <p style="text-align: right; color: blue;">PXP7012</p>	<ul style="list-style-type: none"> ⊕ Mates with Flex Cable PXP7010 ⊕ Front Panel Mounting ⊕ Single Hole Fixing ⊕ Leading Earth on 3 Pole Connectors ⊕ Screw Solder & Crimp Termination 	
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------

Pin Contacts	Socket Contacts	Pole Count	Termination	Contacts
PXP7012/02P/ST	PXP7012/02S/ST	02	Screw	Supplied Fitted
PXP7012/03P/ST	PXP7012/03S/ST	03	Screw	Supplied Fitted
PXP7012/06P/ST	PXP7012/06S/ST	06	Screw	Supplied Fitted
PXP7012/10P/CR	PXP7012/10S/CR	10	Crimp / Solder	Contact Required
PXP7012/32P/CR	PXP7012/32S/CR	32	Crimp / Solder	Contact Required

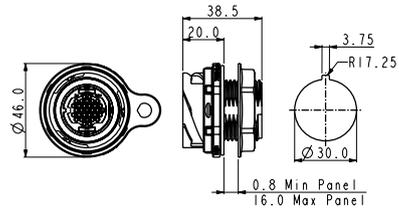
7000 Series Buccaneer

<p>Flex Cable Connector</p>  <p>PXM7010</p>	<ul style="list-style-type: none"> ⊕ Mates with PXM7011 & PXM7012 ⊕ Quick Turn Locking Ring ⊕ Leading Earth on 3 Pole Connectors ⊕ Screw Solder & Crimp Termination ⊕ Cable Braid Termination Accessory Option add /SNsuffix 	
-------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

Pin Contacts	Socket Contacts	Pole Count	Termination	Contacts
PXM7010/02P/ST	PXM7010/02S/ST	02	Screw	Supplied Fitted
PXM7010/03P/ST	PXM7010/03S/ST	03	Screw	Supplied Fitted
PXM7010/06P/ST	PXM7010/06S/ST	06	Screw	Supplied Fitted
PXM7010/10P/CR	PXM7010/10S/CR	10	Crimp / Solder	Contact Required
PXM7010/32P/CR	PXM7010/32S/CR	32	Crimp / Solder	Contact Required

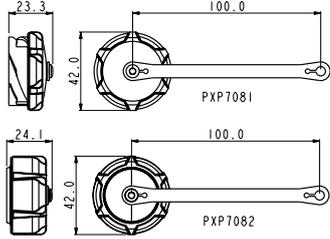
<p>In-line Flex Cable Connector</p>  <p>PXM7011</p>	<ul style="list-style-type: none"> ⊕ Mates with Flex Cable PXM7010 ⊕ Pin or Socket Versions ⊕ Leading Earth on 3 Pole Connectors ⊕ Screw Solder & Crimp Termination ⊕ Cable Braid Termination Accessory Option add /SNsuffix 	
----------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------

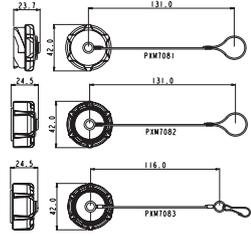
Pin Contacts	Socket Contacts	Pole Count	Termination	Contacts
PXM7011/02P/ST	PXM7011/02S/ST	02	Screw	Supplied Fitted
PXM7011/03P/ST	PXM7011/03S/ST	03	Screw	Supplied Fitted
PXM7011/06P/ST	PXM7011/06S/ST	06	Screw	Supplied Fitted
PXM7011/10P/CR	PXM7011/10S/CR	10	Crimp / Solder	Contact Required
PXM7011/32P/CR	PXM7011/32S/CR	32	Crimp / Solder	Contact Required

<p>Front Panel Mounting Connector</p>  <p>PXM7012</p>	<ul style="list-style-type: none"> ⊕ Mates with Flex Cable PXM7010 ⊕ Front Panel Mounting ⊕ Single Hole Fixing ⊕ Leading Earth on 3 Pole Connectors ⊕ Screw Solder & Crimp Termination 	
-------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------

Pin Contacts	Socket Contacts	Pole Count	Termination	Contacts
PXM7012/02P/ST	PXM7012/02S/ST	02	Screw	Supplied Fitted
PXM7012/03P/ST	PXM7012/03S/ST	03	Screw	Supplied Fitted
PXM7012/06P/ST	PXM7012/06S/ST	06	Screw	Supplied Fitted
PXM7012/10P/CR	PXM7012/10S/CR	10	Crimp / Solder	Contact Required
PXM7012/32P/CR	PXM7012/32S/CR	32	Crimp / Solder	Contact Required

7000 Series Buccaneer

<p>Sealing Caps</p>  <p>PXP7082, PXP7081</p>	<ul style="list-style-type: none"> ○ Maintains IP Rating of Unmated Connectors ○ PXP7081: Fits PXP7010 (Flex Connector) ○ PXP7082: Fits PXP7011 (Flex In-Line Connector) & PXP7012: (Panel Connector) 	
--------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

<p>Sealing Caps</p>  <p>PXM7082, PXM7081, PXM7083</p>	<ul style="list-style-type: none"> ○ Maintains IP Rating of Unmated Connectors ○ PXM7081: Fits PXM7010 (Flex Connector) ○ PXM7082: Fits PXM7011 (Flex In-Line Connector) & PXP7012: (Panel Connector) ○ PXM7083: Fits PXM7012 (Panel Mounting Connector) 	
-----------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

<p>Cable Gland Packs</p>  <p>PXP7088/*</p>	<ul style="list-style-type: none"> ○ Cable Glands, Cages & Gland Nuts Ranging from 5.0 to 15.0mm Diameter ○ PXP7088/0507: 5.0 & 7.0mm ○ PXP7088/0713: 7.0 & 13.0mm ○ PXP7088/1315: 13.0 & 15.0mm
--------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<p>Crimp Tooling</p>  <p>14025</p>	<ul style="list-style-type: none"> ○ Crimp Tools for 10 & 32 Pole Crimp Contacts
------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------

Part No.	Description
14025	Crimp Tool (10 & 32 Pole)
15021/SP	Positioner (10 Pole)
15019/SP	Positioner (32 Pole)

7000 Series Buccaneer



Crimp / Solder Contacts



10 & 32 Pole Contacts

- ⬡ Gold Plated
- ⬡ Current Ratings:
 - 10 Pole: 10A
 - 32 Pole: 2A

Part No.		Description
Crimp:	Solder:	Contacts (10 Pole) (Supplied In Packs of 10):
SA3623/P	SA3544/P	Pins
SA3623/S	SA3544/S	Sockets
		Contacts (32 Pole) (Supplied In Packs of 10):
SA3622/P	SA3542/P	Pins
SA3622/S	SA3542/S	Sockets

Extraction Tools



14944/SP, 14945/SP

- ⬡ Extraction Tool for 10 & 32 Pole Contacts

Part No.	Description
14945/SP	Extraction Tool (10 Pole)
14944/SP	Extraction Tool (32 Pole)

7000 Series Buccaneer

<p>Cable Braid Termination Option</p>  <p>PXM7090</p>	<ul style="list-style-type: none"> ⬡ For Cable Braid Termination ⬡ Supplied with Ty-Rap
-----------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------

<p>Contact Carrier Removal Tool</p>  <p>15065/SP</p>	<ul style="list-style-type: none"> ⬡ For Removal of all Contact Carriers
----------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------

Part No.	Description
15065/SP	Contact Carrier Removal Tool (all Poles)

Technical Overview Data

Electrical:

No Poles:	2	3	6	10	32
Current Rating					
UL:	25A	25A	10A	10A	3A
cUL:	25A	25A	8A	6A	2A
Voltage Rating (ac/dc)					
UL, cUL (pending)	600V	600V	600V	600V	600V
Contact Resistance:	<10mΩ				
Insulation Resistance:	>10 ⁹ MΩ @500V dc				
AC Breakdown Voltage					
2 Pole:	>10kV				
3 Pole:	>8kV				
6 to 32 Pole:	>5kV				
Operating Temp. Range:	-40°C to +120°C				
Approvals					
 UL	UL1977				
 cULus	C22.2 No.182.3-M1987 (R2009)				

Materials:

Body:	PC/ PBT
Colour:	Grey
Contacts:	Brass, Nickel Plate (Screw and Crimp) Brass, (3A – Gold Plated)
O Rings & Gaskets:	Silicone
Flammability Rating:	UL94 V-0
Halogen Free:	Yes
UV Resistance:	ISO 4892 part 3 cycle 1 (QUV)
RoHS	Compliant

Mechanical:

Locking Mechanism:	Quarter Turn, Rapid Locking
Sealing:	IP66 to EN60529:1992+A2:2013 IP68 to EN60529:1992+A2:2013 (10m Depth for 2 Weeks) IP69k to DIN 40050-9
Salt Mist (Plastic):	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Salt Mist (Metal):	EN60068-2-11 Test Ka Salt Mist
Contact Accommodation	
2 & 3 Pole Screw Terminals:	6.0mm ² Max
6 Pole Screw:	1.00mm ² Max
10 Pole Crimp / Solder:	18 to 20AWG
32 Pole Crimp / Solder:	22 to 26AWG
Cable Acceptance:	5-15mm Dia.
Cable retention force (to BS EN61984)	
5 - 9mm Dia Cable:	80N
9 - 15mm Dia Cable:	100N
Terminations	
2 Pole:	Screw Terminals
3 Pole:	Screw Terminals
6 Pole:	Screw Terminals
10 Pole:	Crimp / Solder Contacts
32 Pole:	Crimp / Solder Contacts
Tightening Torques	
Gland Nut:	TBA
Panel Nut:	1.7Nm (15lbf.in.)
Panel Nut Thread:	M30 x 2-6g
Dimensions	
Diameter: (Over Coupling Ring)	42mm
Diameter: (Panel Hole Cut-Out)	30mm

Metal

Cast Zinc Alloy, Nickel Plated
Matt silver
Brass, Nickel Plate (Screw and Crimp) Brass, (3A – Gold Plated)
Silicone
-
-
-
Compliant



7000 Series Buccaneer

The thermal properties of the materials used in the construction of a connector limit the current carrying capacity. There are a number of factors that determine the amount of current that can be handled: contact spacing, size of cable, ambient temperature and the heat that is generated by the current passing through the connector.

The maximum current varies with different contact layouts, and because of these factors it is necessary to produce de-rating curves for each pole variant. This de-rating curve is specified in the standard IEC 60512 part 3. De-rating curves are plotted for each contact carrier combination with the current being carried simultaneously by all contacts. These graphs show the heat rise generated as the current is increased.

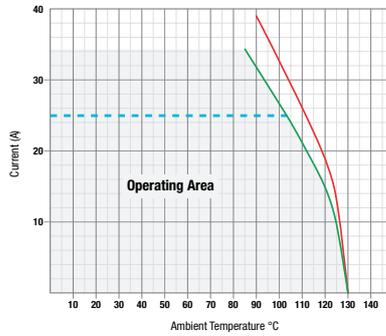
The red line indicates the direct correlation between current applied and the measured temperature rise within the connector. The dotted blue line shows rated current and the green line is derived by applying a factor of 0.8 to the original plot data to give a de-rating curve. The dashed blue line shows the rated current.

The shaded area under the 0.8 curve shows the permitted operating area, and allows safe current vs ambient temperature characteristics to be determined.

- = Tested Operating Limits
- = De-Rated Operating Limits
- - - = Rated Current

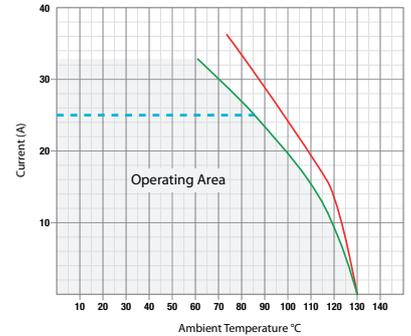
7000 Series Current vs. Temperature Characteristics

2 Pole, Plastic Body, Screw Terminal, 6.0mm² wire
current applied through all pins simultaneously



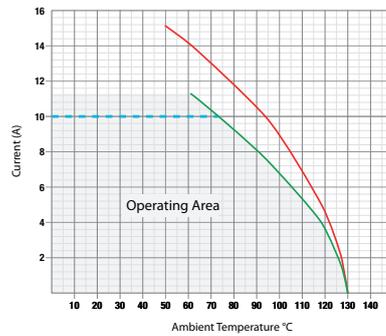
7000 Series Current vs. Temperature Characteristics

3 Pole, Plastic Body, Screw Terminal, 4.0mm² wire
current applied through all pins simultaneously



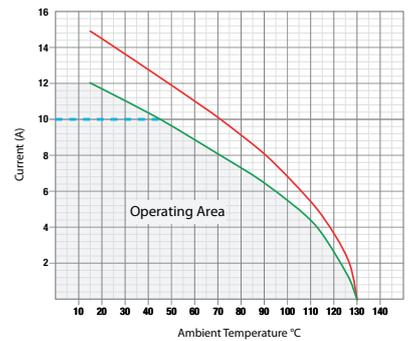
7000 Series Current vs. Temperature Characteristics

6 Pole, Plastic Body, Screw Terminal, 1.0mm² wire
current applied through all pins simultaneously



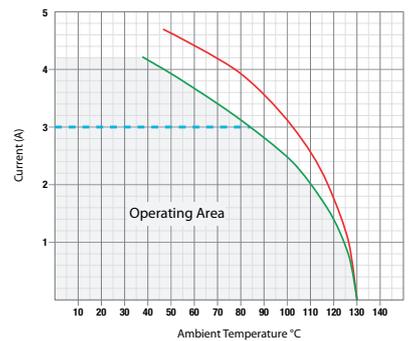
7000 Series Current vs. Temperature Characteristics

10 Pole, Plastic Body, Crimp Terminal, 18 AWG wire
current applied through all pins simultaneously



7000 Series Current vs. Temperature Characteristics

32 Pole, Plastic Body, Crimp Terminal, 22 AWG wire
current applied through all pins simultaneously



7000 Series Buccaneer

PXX	7XXX	XX	X	XX	XXXX	XX
Series Designation	Series / Body Style	No. of Contacts	Contact Type	Terminations	Cable Entry Size	Termination
PXM = Metal Series	7010 = Flex	02 = 2 Pole	P = Pin	ST = Screw Terminal (2, 3, & 6 Pole Only)	(Flex and Flex In-Line Only)	(Flex & Flex In-Line Only)
PXP = Plastic Series	7011 = Flex In-Line	03 = 3 Pole	S = Socket	CR = Contacts Required (10 & 32 Pole Only)	0507 = 5-7mm (Grey)	SN - If Requires
	7012 = Panel	06 = 6 Pole			0709 = 7-9mm (White)	Blank - If Not Required
		10 = 10 Pole			0911 = 9-11mm (Black)	
		32 = 32 Pole			1113 = 11 to 13 mm (Yellow)	
					1315 = 13 to 15 mm (Light Grey)	
Example:						
PXM7010/10/P/CR/0911/SN = Flex Cable Connector, 10 Pole, Pin Contacts with 9 to 11mm Cable Glands & Braid Termination Accessory						
PXM7012/03/S/ST = Front Panel Mounting Connector, 3 Pole, Socket with Screw Termination						