7000 Series Buccaneer®

bulgin
a brand of Elektron Technology

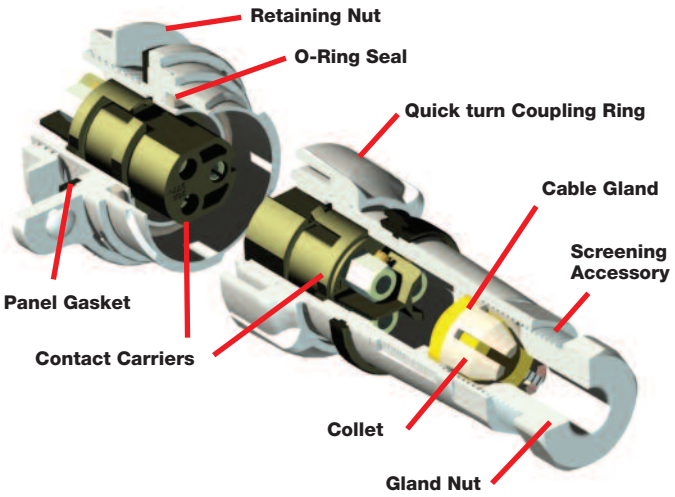
Robust, rapid connections for harsh environments

The all metal construction 7000 Series Buccaneer - circular connectors that combine the ease of use of a quick coupling mechanism with proven environmental sealing for signal and mains power.

Designed and independently tested to IP66, IP68 & IP69K standards, they are ideal for applications where ingress of dust and water must be avoided and where ease of connection, space and appearance are important considerations.

For Power

METAL VERSION

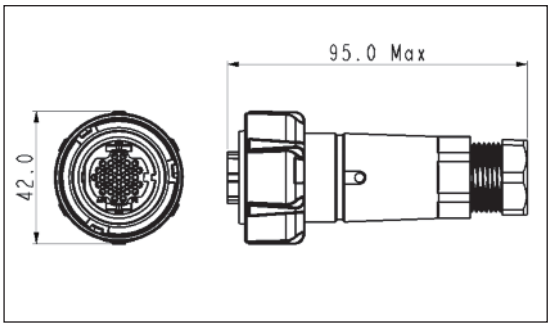


Less than 1/4 Turn locking mechanism	Secure, quick connector mating and release
Positive feedback on locking mechanism	Confidence that connector is correctly mated and sealed
IP66, IP68 and IP69K when mated	Suitable for a wide range of dust and water borne environments
All metal body version; cast zinc alloy, nickel plated	Robust construction offering protection against EMI
Flex, flex in-line & panel mount body styles, with sealing caps	Complete family of products maintain sealing integrity in all styles
Polarisation and visual alignment features	Aids the correct mating of connectors
2 to 32 poles – up to 25A, 600V rated	Suitable for mains power to signal applications
'Scoop proof' contacts	Prevents damage through mis-mating – ideal for 'blind mating' applications
cULs, UL, VDE, CCC approvals (pending)	Internationally recognised certification

Metal Version

FLEX CABLE CONNECTOR

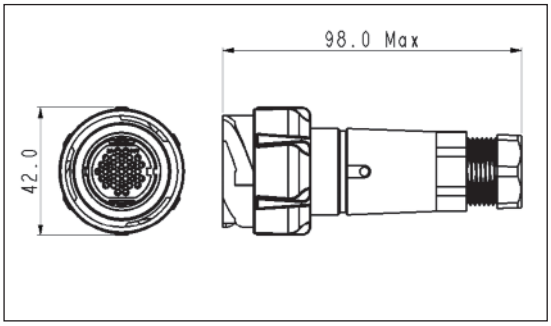
- Mates with In-Line Flex or Panel Mounting versions PXM7011 & PXM7012
- Quick turn locking ring
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 6, 10 & 32 pole
- Screw and crimp termination
- Cable braid termination accessory option, add /SN suffix



Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXM7010/02P/ST	PXM7010/02S/ST	Supplied Fitted
3	Screw	PXM7010/03P/ST	PXM7010/03S/ST	Supplied Fitted
6	Screw	PXM7010/06P/ST	PXM7010/06S/ST	Supplied Fitted
10	Crimp	PXM7010/10P/CR	PXM7010/10S/CR	Order Separately
32	Crimp	PXM7010/32P/CR	PXM7010/32S/CR	Order Separately

IN-LINE FLEX CABLE CONNECTOR

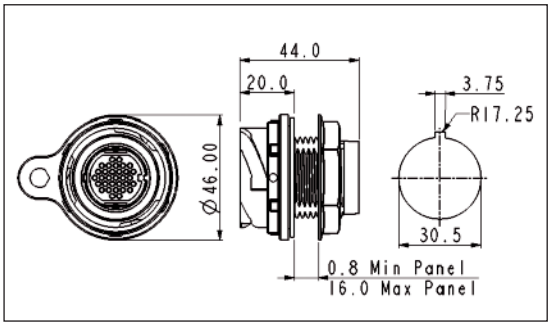
- Mates with Flex Cable connector PXM7010
- For in-line cable connection
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 6, 10 and 32 pole
- Screw and crimp termination
- Cable braid termination accessory option, add /SN suffix



Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXM7011/02P/ST	PXM7011/02S/ST	Supplied Fitted
3	Screw	PXM7011/03P/ST	PXM7011/03S/ST	Supplied Fitted
6	Screw	PXM7011/06P/ST	PXM7011/06S/ST	Supplied Fitted
10	Crimp	PXM7011/10P/CR	PXM7011/10S/CR	Order separately
32	Crimp	PXM7011/32P/CR	PXM7011/32S/CR	Order separately

FRONT PANEL MOUNTING CONNECTOR

- Mates with Flex Cable connectors PXM7010
- Front panel mounting
- Single hole fixing
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 6, 10 and 32 pole
- Screw and crimp termination



Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXM7012/02P/ST	PXM7012/02S/ST	Supplied Fitted
3	Screw	PXM7012/03P/ST	PXM7012/03S/ST	Supplied Fitted
6	Screw	PXM7012/06P/ST	PXM7012/06S/ST	Supplied Fitted
10	Crimp	PXM7012/10P/CR	PXM7012/10S/CR	Order separately
32	Crimp	PXM7012/32P/CR	PXM7012/32S/CR	Order separately

Metal Version

CRIMP CONTACTS

10 & 32 pole contacts

- Crimp Contacts
- Gold Plated
- Current ratings:
  - 10 pole: 10A
  - 32 pole: 2A

Contacts - Crimp for 10 and 32 pole

Contacts (for 10 pole) (Supplied in packs of 10)	Crimp
Pins	SA3544/P
Sockets	SA3544/S

Contacts (for 32 pole) (Supplied in packs of 10)	Crimp
Pins	SA3542/P
Sockets	SA3542/S

CRIMP TOOLING

PNo 14025

- Crimp Tools for 10 and 32 pole crimp contacts

Crimp Tooling	
Crimp Tool (10 & 32 pole)	PNo. 14025
Positioner (10 pole)	PNo. 15021/SP
Positioner (32 pole)	PNo. 15019/SP

EXTRACTION TOOLS

PNo 14944/SP PNo 14945/SP

- Extraction Tool for 10 and 32 pole contacts

Extraction Tools	
Extraction Tool (10 pole)	PNo. 14945/SP
Extraction Tool (32 pole)	PNo. 14944/SP

CONTACT CARRIER REMOVAL TOOL

PNo. 15065/SP

- For removal of all contact carriers

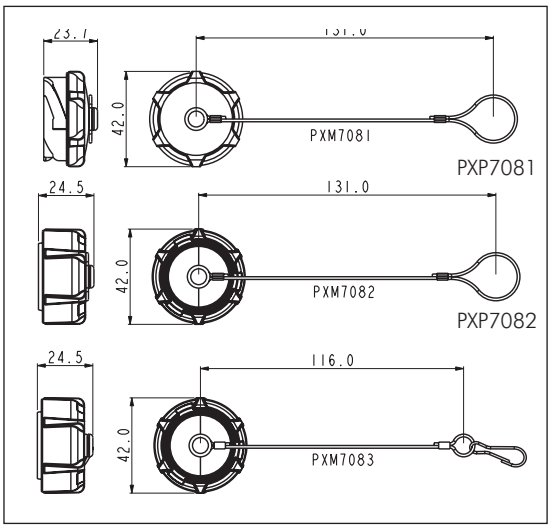
Tools	
Contact carrier removal tool (all poles)	PNo. 15065/SP

Metal Version

SEALING CAPS

PXM7082 PXM7081 PXM7083

- Maintains IP rating of unmated connectors
- PXM7081: Fits PXM7010 (Flex Connector)
- PXM7082: Fits PXM7011 (Flex In-Line Connector) and PXP7012: (Panel Connector)
- PXM7083: Fits PXM7012 (Panel Mounting Connector)



CABLE GLAND PACKS

PXM7088/ *

- Packs of cable glands, cages and gland nuts to suit cables ranges from 5.0 to 15.0mm diameter
- PXM7088/0507: for cable ranges between 5.0 and 7.0mm
- PXM7088/0713: for cable ranges between 7.0 and 13.0mm
- PXM7088/1315: for cable ranges between 13.0 and 15.0mm

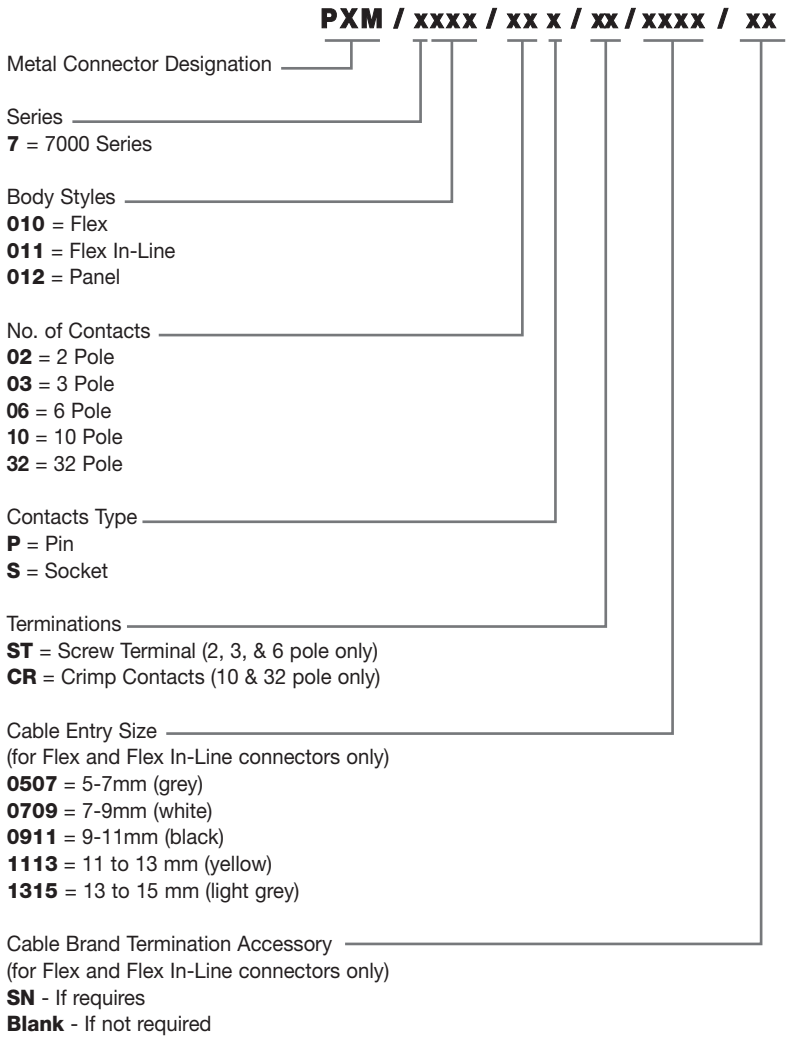
CABLE BRAID TERMINATION OPTION

PXM7090

- For cable braid termination
- Supplied with ty-rap

Metal Version

PART NO SYSTEM



Examples:
PXM7010/10/P/CR/0911/SN= Flex cable connector, 10 pole, pin contacts, crimp termination with 9 to 11mm cable glands and braid termination accessory

PXM7012/03/S/ST= Front panel mounting connector, 3 pole, socket with screw termination

Metal Version

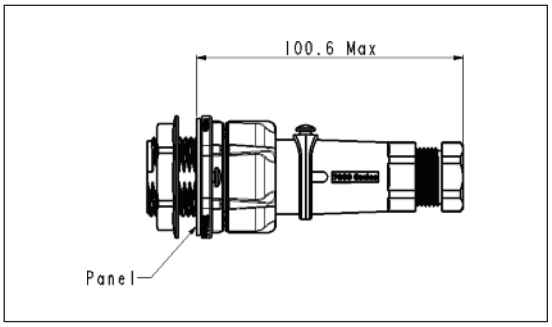
SPECIFICATION

Electrical:					
No. Poles:	2	3	6	10	32
Current Rating:					
CCC, UL and VDE (pending)	25A	25A	10A	10A	3A
cUL (pending)	25A	25A	8A	6A	2A
Voltage Rating (ac/dc):					
CCC, VDE (pending)	600V	600V	500V	277V	200V
UL, cUL (pending)	600V	600V	600V	600V	600V
Contact Resistance:	<10mΩ				
Insulation Resistance:	>10^6MΩ @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 (pending):					
UL	UL1977				
CSA	C22.2 No.182.3-M1987 (R2009)				
VDE	IEC 61984:2009				
CCC	GB/T11918 and GB/T11919				

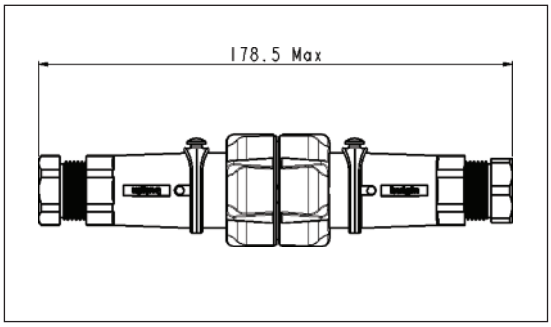
Material:	
Body:	Cast zinc alloy, nickel plated
Colour:	Matt silver
Contacts:	Brass, Nickel plated (2A – Gold plated)
O Rings & Gaskets:	Silicon
RoHS	Compliant

Mechanical:	
Locking mechanism	Quarter turn, rapid locking
Sealing:	IP66 to EN60529:1992 IP68 to EN60529:1992 (10m depth for 2 weeks) IP69k to DIN 40050-9
Contact Accommodation:	
2 & 3 pole screw terminals	6.0mm² max
6 pole screw	1.00mm² max
10 pole crimp	18 to 20AWG
32 pole crimp	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 Contacts
32 Pole:	Crimp 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

Mated dimensions - Flex to panel connector



Mated dimensions - Flex connector to in-line connector



CURRENT CARRYING CAPACITY

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

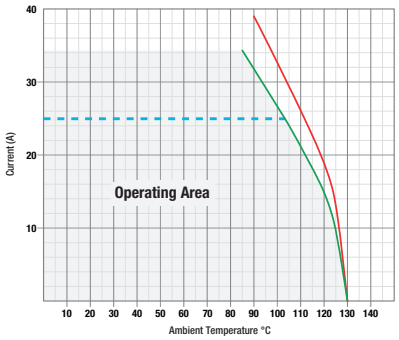
= de-rated operating limits

= rated current

7000 Series Current vs. Temperature Characteristics

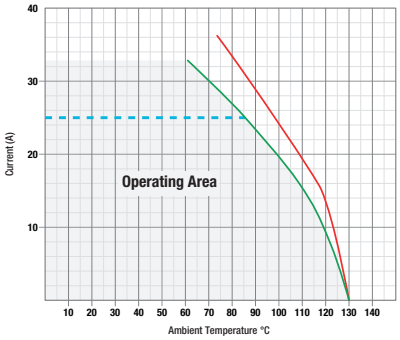
2 Pole, Screw Terminal, 6.0mm² wire

current applied through all pins simultaneously



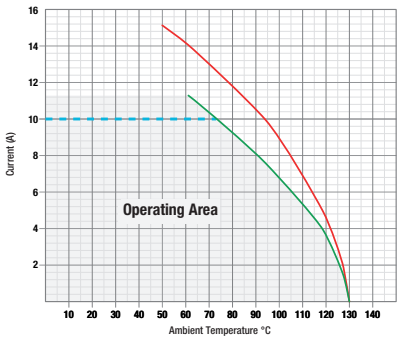
3 Pole, Screw Terminal, 4.0mm² wire

current applied through all pins simultaneously



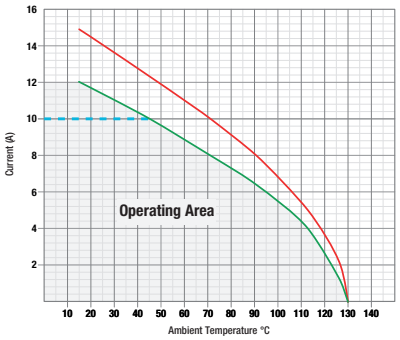
6 Pole, Screw Terminal, 1.0mm² wire

current applied through all pins simultaneously



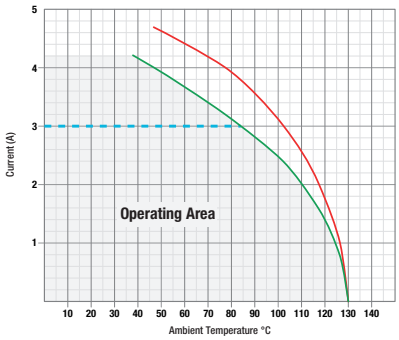
10 Pole, Crimp Terminal, 18 AWG wire

current applied through all pins simultaneously



32 Pole, Crimp Terminal, 22 AWG wire

current applied through all pins simultaneously



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Стандарт Электрон Связь

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Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

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С нами вы становитесь еще успешнее!

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