



Bulgins Ethos

Borne out of their experience in developing electronic components for the [world-renowned connectivity](#) and switching brands [Bulgin](#) and Arcoelectric, our teams of product development engineers based at the Connectivity Lab in Cambridge relish the challenge of delivering complex and demanding [custom solutions](#).

We'll question you, challenge you and work with you to anticipate the future demands of your markets, making sure that we are creating the right products at the right price. Working in close collaboration with you, we identify opportunities, mitigate risks and plan how to exploit new and emerging technologies, creating category-driving innovations that deliver on highly demanding projects.

[Pushing the boundaries of new product development.](#)

At the Connectivity Lab, we offer our customers a high quality, 'one stop shop' engineering resource, using our technical expertise and extensive knowledge across a range of engineering disciplines to provide human-centered design, as well as turnkey project management capabilities. Liaising directly with our manufacturing plants, the Connectivity Lab ensures that no stone is unturned in getting your ideas off the page and progressing your prototype to full-scale manufacturing to meet the demands of your customers. This simplifies the supply chain and the manufacturing process, reduces production costs and accelerates time to market.

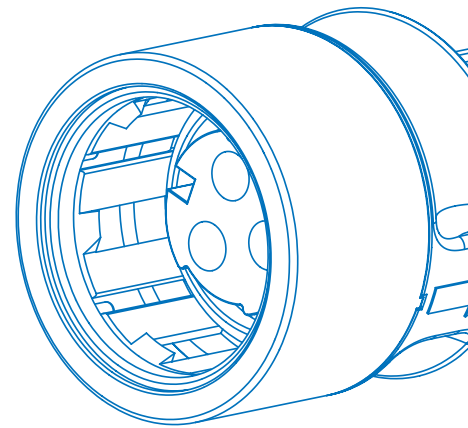
[Excellence and experience](#)

Having access to the right expertise, at the right time – whether it is for an individual phase of the development project or the entire production process – is a vital part of the transition from concept to finished product. At Elektron, we foster an entrepreneurial approach, equipping our engineers with state-of-the-art facilities and cutting-edge design tools, including: analytical modelling computer-aided design rapid prototyping printed

[Celebrating individuality!](#)

All of our customers are individuals and so are their projects. With diverse R&D skills covering every aspect of engineering and a quest to bring high-level innovation to the table, our bespoke services are uniquely tailored to customers' individual needs, giving you the very best results when we take an original concept from design through to

We pay close attention to every element of the product development and manufacturing process and have designed the StageGate® Process, our own method to control and document every step. Our service offers ISO 9001 accreditation for document control – as well as ISO 13485 compliance for the design and manufacture of medical products – so that you can reap the benefits of our carefully controlled protocols, whether for just one aspect of a project or the entire development process.



Identify - Design - Build - Validate - Sustain

Our Skills

Whatever your **engineering requirement** is, we have the **knowledge** and **capability in-house** to bring your projects to **reality**.

Mechanical

- in-house 3D modelling
- finite element analysis
- rapid prototyping
- 3D rendered models

Electronics

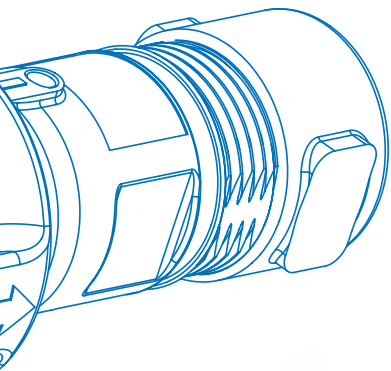
- in-house modelling
- simulation
- rapid prototyping
- optimized printed circuit board layouts
- human-centered design

Assembly

- cable to connector complete assemblies
- overmoulding tools for all our connectors
- enclosures and complete panel assembly
- turnkey solutions for finished article or sub-assembly parts

Software

- agile software development
- continuous integration
- source code management
- straightforward graphical user interfaces
- improved usability



Approvals

Good design, high quality and maximum value have formed an integral part of the Bulgin philosophy.

We maintain a documented quality plan specifying process and product goals and are approved by BSI to ISO9001:2008.

Investment in new plant and equipment makes an important contribution to continuous quality improvements. The risk of errors in the transition from design to manufacture is greatly reduced by the digital data flows from our CAD system, and our sophisticated automatic manufacturing equipment which can form and assemble components to consistently high quality standards.

Two ISO9001 approvals cover our design and manufacturing sites: certificate FM544884 covers our design procedures, and certificate FM87532 our manufacture processes.

All new products are extensively pre-production tested, in our dedicated electrical and mechanical test facility, which also conducts regular checks during manufacture.

The numerous international safety approvals gained are testimony in themselves to Bulgin's ongoing commitment to quality and the world wide market place.



These European Directives introduced environmental responsibilities for electrical and electronics equipment manufacturers. The RoHS (Restriction of use of certain Hazardous Substances) regulation (Directive 2002/95/EC) came into force July 2006. The WEEE (Waste Electrical and Electronic Equipment) regulation (Directive 2002/96/EC), came into force January 2007.

The RoHS directive effectively bans the use of certain chemicals, these are defined as:

- Lead
- Cadmium
- Mercury
- Hexavalent Chromium
- Polybrominated Biphenyl (PBB) - flame retardant
- Polybrominated Diphenyl Ether (PBDE) - flame retardant (including Deca BDE)

Action has been taken to ensure all standard products meet the requirements of this directive. All packing carries RoHS compliance information as conformation.

*Our IP ratings are internally tested to EN 60529. IP68 rated products have undergone immersion testing in water at a depth of 10M for a period of 2 weeks unless otherwise stated.

Our Offices

Bulgin has a [global presence](#), with regional offices located in the [UK,US](#) and [China](#). Our reach is also through an [extensive distribution network](#) which covers over [200 countries](#) worldwide.



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A full range of IP66, IP68 and IP69K rated environmentally sealed circular connectors designed to provide secure and safe connections in harsh or hostile conditions.

The Power Buccaneer consist of the miniature 400, Mini, Standard, 900, 7000 and 6000 Series. Screw terminations ensure simple 'field' connection, while crimp terminations fulfil the requirement for fast effective volume connections.

Each range has flex cable connector, in-line flex cable connector and panel mounting connector options. Over molded versions of the 400 series and Standard Buccaneer provide safe, secure and tamperproof cable termination.

With a wide choice of alternatives from 2 to 32 poles, BNC connections and screw, solder or crimp terminations, the Buccaneer range provides the answer to many design problems.



Explora	08-13
900 Series Buccaneer	14-19
Standard Buccaneer	20-28
Mini Buccaneer	29-32
400 Series Buccaneer	33-38
6000 Series Buccaneer	39-46
7000 Series Buccaneer	47-54

The EXPlora range is most suited to manufacturers of ancillary electrical equipment such as motors, pumps, lighting equipment, process and control gear for use in factories and plant where hazardous, or explosive atmospheres can be caused by flammable gases, mists or vapours or by combustible dusts.



Independently tested for compliance to ATEX standards for use in Zone 2 and Zone 22 environments, the new EXP series is manufactured from a tough, high grade UL94V-0 rated Polyester material and provides environmental sealing to IP68. The ATEX coding is: Ex II 3 GD and the certificated no: Baseefa09ATEX0232X.

EXPlora is rated up to 18A, 600Vac/dc for 2, 3, 4 and 5 poles, 16A, 430Vac/dc for 7 pole and 10A, 250Vac/dc for 10 poles. The 3, 4, 5 and 7 pole versions have leading earth contacts making them suitable for single or three phase applications.



- ⬢ ATEX approval for Zone 2 and Zone 22 applications
- ⬢ Independently tested
- ⬢ ATEX Coding:  II 3 GD
- ⬢ ATEX Classification: Ex nA IIC T6 Gc
Ex tc IIIC T85°C Dc
- ⬢ ATEX Certificate No: Baseefa09ATEX0232X
- ⬢ IP68 rating tested at 1.054kg/sq cm (15lb/sq in)
- ⬢ 10m depth for 2 weeks
- ⬢ Up to 18A, 600V ac/dc rating
- ⬢ 2, 3, 4, 5, 7 and 10 pole
- ⬢ Leading earth contact for 3, 4, 5 & 7 pole versions
- ⬢ Trailing Neutral on 5 pole
- ⬢ Plug or socket connection in each body style
- ⬢ Water and dustproof to IP68 when mated

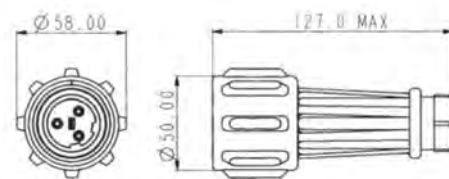
- ⬢ 'Scoop proof' contacts
- ⬢ Field termination - screw terminations
- ⬢ Positive locating keyways - cannot be mis-connected
- ⬢ Sealing caps available to maintain IP68 rating of unmated connectors
- ⬢ Compact design
- ⬢ Easy assembly - no special tools required
- ⬢ Single or 3 phase applications
- ⬢ Cost effective solution
- ⬢ Cable acceptance from 7 to 22mm O/D
- ⬢ Two cable connector versions for 15mm and 22mm (maximum) cable diameters
- ⬢ Separate strain relief on large cable version

Flex Cable Connector



EXP-0911

- Mates with in-line flex or panel mounting versions
- Positive, fast acting locking ring - can be turned with a gloved hand
- Plug or socket versions
- EXP-0 Series 13-15mm cable dia. acceptance as standard, 7-13mm with additional gland pack
- EXP-A Series 20-22mm cable dia. Acceptance as standard, 14-20mm with additional gland pack
- Strain Relief Clamp

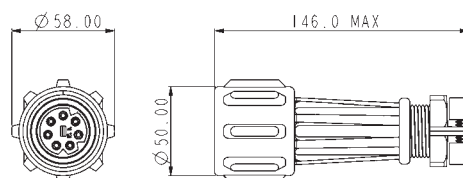


Flex Cable Connector



EXP-A911

- EXP-A Series 20-22mm cable dia. Acceptance as standard, 14-20mm with additional gland pack
- Strain Relief Clamp



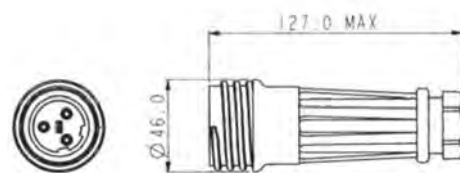
Standard Cable	Large Cable	Description	Standard Cable	Large Cable	Description
EXP-0911/02/P	EXP-A911/02/P	2 pole Plug	EXP-0911/02/S	EXP-A911/02/S	2 pole Socket
EXP-0911/03/P	EXP-A911/03/P	3 pole Plug	EXP-0911/03/S	EXP-A911/03/S	3 pole Socket
EXP-0911/04/P	EXP-A911/04/P	4 pole Plug	EXP-0911/04/S	EXP-A911/04/S	4 pole Socket
EXP-0911/05/P	EXP-A911/05/P	5 pole Plug	EXP-0911/05/S	EXP-A911/05/S	5 pole Socket
EXP-0911/07/P	EXP-A911/07/P	7 pole Plug	EXP-0911/07/S	EXP-A911/07/S	7 pole Socket
EXP-0911/10/P	EXP-A911/10/P	10 pole Plug	EXP-0911/07/S	EXP-A911/10/S	10 pole Socket

In-Line Flex Cable Connector



EXP-0921

- Mates with either EXP-0911 or EXP-A911 connectors
- Plug or socket versions
- EXP-0 Series 13-15mm cable dia. acceptance as standard, 7-13mm with additional gland pack

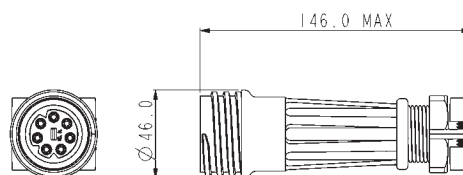


In-Line Flex Cable Connector



EXP-A921

- EXP-A Series 20-22mm cable dia. acceptance as standard, 14-20mm with additional gland pack
- Strain Relief Clamp



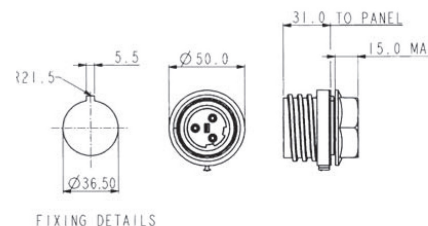
Standard Cable	Large Cable	Description	Standard Cable	Large Cable	Description
EXP-0921/02/P	EXP-A921/02/P	2 pole Plug	EXP-0921/02/S	EXP-A921/02/S	2 pole Socket
EXP-0921/03/P	EXP-A921/03/P	3 pole Plug	EXP-0921/03/S	EXP-A921/03/S	3 pole Socket
EXP-0921/04/P	EXP-A921/04/P	4 pole Plug	EXP-0921/04/S	EXP-A921/04/S	4 pole Socket
EXP-0921/05/P	EXP-A921/05/P	5 pole Plug	EXP-0921/05/S	EXP-A921/05/S	5 pole Socket
EXP-0921/07/P	EXP-A921/07/P	7 pole Plug	EXP-0921/07/S	EXP-A921/07/S	7 pole Socket
EXP-0921/10/P	EXP-A921/10/P	10 pole Plug	EXP-0921/07/S	EXP-A921/10/S	10 pole Socket

Panel Mounting Connector



EXP-0931

- Mates with EXP-0911 and EXP-A911 connectors
- Single hole fixing
- Anti-rotation key
- High grade sealing gasket
- 3-7mm panel thickness



Panel Mounting

EXP-0931/02/P	2 pole Plug
EXP-0931/03/P	3 pole Plug
EXP-0931/04/P	4 pole Plug
EXP-0931/05/P	5 pole Plug
EXP-0931/07/P	7 pole Plug
EXP-0931/10/P	10 pole Plug

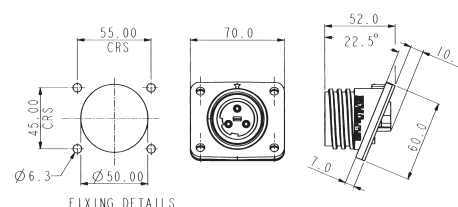
EXP-0931/02/S	2 pole Socket
EXP-0931/03/S	3 pole Socket
EXP-0931/04/S	4 pole Socket
EXP-0931/05/S	5 pole Socket
EXP-0931/07/S	7 pole Socket
EXP-0931/10/S	10 pole Socket

Flange Mounting Connector



EXP-0941

- Mates with EXP-0911 and EXP-A911 connectors
- Supplied with high grade sealing gasket
- Supplied with sealing grommets for panel fixing screws (M6 thread recommended)



Panel Mounting

EXP-0941/02/P	2 pole Plug
EXP-0941/03/P	3 pole Plug
EXP-0941/04/P	4 pole Plug
EXP-0941/05/P	5 pole Plug
EXP-0941/07/P	7 pole Plug
EXP-0941/10/P	10 pole Plug

EXP-0941/02/S	2 pole Socket
EXP-0941/03/S	3 pole Socket
EXP-0941/04/S	4 pole Socket
EXP-0941/05/S	5 pole Socket
EXP-0941/07/S	7 pole Socket
EXP-0941/10/S	10 pole Socket

Accessories



EXP-0990, EXP-0991, EXP-0992

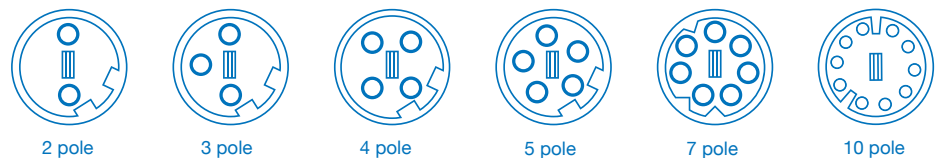
- Heavy duty sealing caps to maintain IP68 rating of unmated connectors, with stainless steel straps

Sealing Caps

EXP-0990	Heavy duty sealing cap for use with EXP-0911/xx/x and EXP-A911/xx/x
EXP-0991	Heavy duty sealing cap for use with EXP-0921/xx/x and EXP-A921/xx/x
EXP-0992	Heavy duty sealing cap for use with EXP-0931 and EXP-0941

Gland Packs

EXP-0980	Pack of 3 additional cable glands for EXP-0911 and EXP-0921 to suit cable sizes; 11-13mm, 9-11 and 7-9mm dia.
EXP-A980	Pack of 3 additional cable glands for EXP-A911 and EXP-A921 to suit cable sizes; 18-20mm, 16-18 and 14-16mm dia.

EXP X9	X	X	/	XX	/	X	/	X
Series Designation	Body Styles	Contact Termination		Number Contacts		Contact Type		Cable Acceptance
09 = Standard Cable Accommodation (7-13mm) A9 = Large Cable Accommodation (14-22mm)	1 = Flex, 2 = Flex In-line, 3 = Panel, 4 = Flange Panel	1 = Screw Terminal		02 = 2 pole 03 = 3 pole 04 = 4 pole 05 = 5 pole 07 = 7 pole 10 = 10 pole		P = Plug, S = Socket		EXP-0 version: Blank = 13-15mm Yellow cable gland (std) 3 = 11-13mm Black cable gland 2 = 9-11mm White cable gland 1 = 7-9mm Dark Grey cable gland EXP-A version: Blank = 20-22mm Yellow cable gland (std) 9 = 18-20mm Black cable gland 8 = 16-18mm White cable gland 7 = 14-16mm Dark Grey cable gland
Example: EXP-0911/07/P/3 = Flex cable connector with standard cable accommodation body, seven pin contacts, with gland to suit 11-13mm cable.								
Contact Layout								
								
Overall dimensions of connectors when mated together:								
EXP-0911 + EXP-0921	230 mm max.	EXP-A911 + EXP-A931	175 mm max. (to panel)					
EXP-A911 + EXP-A921	270 mm max.	EXP-0911 + EXP-0941	145 mm max. (to panel, mid point on flange)					
EXP-0911 + EXP-0931	135 mm max. (to panel)	EXP-A911 + EXP-A941	174 mm max. (to panel, mid point on flange)					

Electrical:

No Poles:	2, 3, 4, 5 7 10
Current Rating:	18A 16A 10A
Voltage Rating:	600Vac/dc 430Vac/dc 250Vac/dc
Contact Resistance:	<10mΩ (initial)
Insulation Resistance:	>10 ⁶ MΩ (@ 500V dc)
Dielectric strength:	2.2kV ac min
AC Breakdown voltage:	6kV
Ambient Temperature Range:	-20°C to +55°C
Standards:	ATEX Zone 2 and Zone 22 IEC60079-0:2007 IEC60079-15:2005
ATEX Coding:	Ⓔ II 3 GD
ATEX Certificate No:	Baseefa09ATEX0232X
ATEX Classification:	Ex nA IIC T6 Gc Ex tc IIIC T85°C Dc

Materials:

Body Mouldings:	Polyester
Cap Mouldings:	Polycarbonate
Flammability Rating:	UL94V-0
UV Resistance:	To EN50021:1999
Contacts:	Machined Solid Brass, Nickel plated
O Rings:	Nitrile Panel
Sealing Gasket:	Silicone Rubber
RoHS	Compliant

Mechanical:

Sealing:	IP68, EN60529:2001 tested @ 1.054kg/sq.cm. (15lb/sq.in.) 10m depth for 2 weeks
Cable Acceptance:	EXP-0911 - EXP-0921 13 - 15mm O/D standard, 7-13mm with gland pack EXP-A911 - EXP-A921 20 - 22mm O/D standard, 14 - 20mm with gland pack
Contact Accommodation:	2-7 pole - 2.5 to 4mm ² (13 to 10AWG) conductor, single or multi stranded 10 pole - 0.75 to 2mm ² (14 to 18AWG) conductor, single or multi stranded
Termination:	Axial screw terminals 22mm dia, 150N 15mm dia, 150N 7mm dia, 80N
Cable Retention force:	
Gland Nut Torques:	
EXP-0 range	3.16Nm (28lbf/in)
13-15mm (Yellow - std.)	3.16Nm (28lbf/in)
11-13mm (black)	3.16Nm (28lbf/in)
9-11mm (white)	3.16Nm (28lbf/in)
7-9mm (dark grey)	
EXP-A range	
20-22mm (Yellow - std.)	3.16Nm (28lbf/in)
18-20mm (black)	3.16Nm (28lbf/in)
16-18mm (white)	3.16Nm (28lbf/in)
14-16mm (dark grey)	3.16Nm (28lbf/in)
Tightening Torques:	
Panel mount nut	2.25 Nm
Flange & Bulkhead fixing screws	0.9 Nm
Rear thread EXP-0931 series	M36 x 2-6g



IP68

- ⬢ IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- ⬢ 32A, 600V ac/dc rating
- ⬢ 2, 3, 4, 5, 7 and 10 pole
- ⬢ Plug or socket connection in each body style
- ⬢ Water and dustproof to IP68 when mated
- ⬢ 'Scoop proof' contacts
- ⬢ Field termination - screw terminations
- ⬢ Positive locating keyways - cannot be mis-connected
- ⬢ Sealing caps available to maintain IP68 rating of unmated connectors
- ⬢ Leading earth contact for 3, 4, 5 and 7 pole versions
- ⬢ EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- ⬢ Trailing Neutral on 5 pole
- ⬢ Compact design
- ⬢ Easy assembly - no special tools required
- ⬢ Single or 3 phase applications
- ⬢ Bulkhead moulding available for use with flange mounting body for 45° or 90° mounting (order each separately)
- ⬢ Cost effective solution
- ⬢ Cable accommodation 7-22mm O/D
- ⬢ Two cable connector versions for 15mm and 22mm (maximum) cable diameters
- ⬢ Separate strain relief on large cable version
- ⬢ CCC, UL, CSA and VDE approvals

Flex Cable Connector



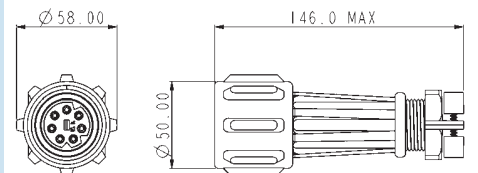
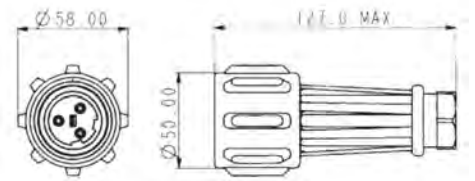
PX0911

Flex Cable Connector



PXA911

- Mates with in-line flex or panel mounting versions
- Positive, fast acting locking ring - can be turned with a gloved hand
- Plug or socket versions
- PX0 Series 13-15mm cable dia. as standard, 7-13mm with additional gland pack
- PXA Series 20-22mm cable dia. as standard, 14-20mm with additional gland pack
- Strain Relief Clamp



Standard Cable	Large Cable	Description	Standard Cable	Large Cable	Description
PX0911/02/P	PXA911/02/P	2 pole Plug	PX0911/02/S	PXA911/02/S	2 pole Socket
PX0911/03/P	PXA911/03/P	3 pole Plug	PX0911/03/S	PXA911/03/S	3 pole Socket
PX0911/04/P	PXA911/04/P	4 pole Plug	PX0911/04/S	PXA911/04/S	4 pole Socket
PX0911/05/P	PXA911/05/P	5 pole Plug	PX0911/05/S	PXA911/05/S	5 pole Socket
PX0911/07/P	PXA911/07/P	7 pole Plug	PX0911/07/S	PXA911/07/S	7 pole Socket
PX0911/10/P	PXA911/10/P	10 pole Plug	PX0911/10/S	PXA911/10/S	10 pole Socket

In-Line Flex Cable Connector



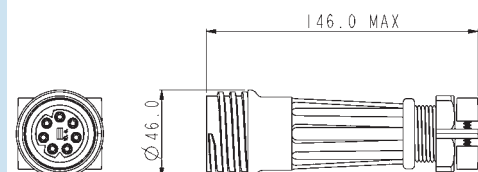
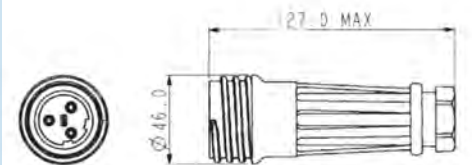
PX0921

In-Line Flex Cable Connector



PXA921

- Mates with either PX0911 or PXA911 connectors
- Plug or socket versions
- PX0 Series 13-15mm cable dia. as standard, 7-13mm with additional gland pack
- PXA Series 20-22mm cable dia. as standard, 14-20mm with additional gland pack
- Strain Relief Clamp



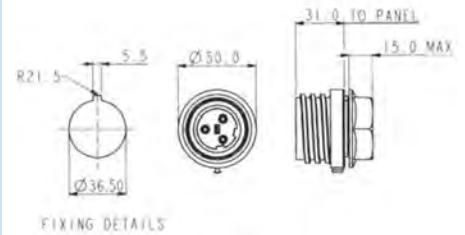
Standard Cable	Large Cable	Description	Standard Cable	Large Cable	Description
PX0921/02/P	PXA921/02/P	2 pole Plug	PX0921/02/S	PXA921/02/S	2 pole Socket
PX0921/03/P	PXA921/03/P	3 pole Plug	PX0921/03/S	PXA921/03/S	3 pole Socket
PX0921/04/P	PXA921/04/P	4 pole Plug	PX0921/04/S	PXA921/04/S	4 pole Socket
PX0921/05/P	PXA921/05/P	5 pole Plug	PX0921/05/S	PXA921/05/S	5 pole Socket
PX0921/07/P	PXA921/07/P	7 pole Plug	PX0921/07/S	PXA921/07/S	7 pole Socket
PX0921/10/P	PXA921/10/P	10 pole Plug	PX0921/10/S	PXA921/10/S	10 pole Socket

Panel Mounted Connector



PX0931

- Mates with PX0911 and PXA911 connectors
- Single hole fixing
- Anti-rotation key
- High grade sealing gasket
- 3-7mm panel thickness



Panel Mounting

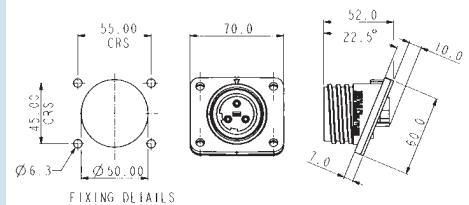
PX0931/02/P	2 pole Plug	PX0931/02/S	2 pole Socket
PX0931/03/P	3 pole Plug	PX0931/03/S	3 pole Socket
PX0931/04/P	4 pole Plug	PX0931/04/S	4 pole Socket
PX0931/05/P	5 pole Plug	PX0931/05/S	5 pole Socket
PX0931/07/P	7 pole Plug	PX0931/07/S	7 pole Socket
PX0931/10/P	10 pole Plug	PX0931/10/S	10 pole Socket

Flange Mounted Connector



PX0941

- Mates with PX0911 and PXA911 connectors
- Supplied with high grade sealing gasket
- Supplied with sealing grommets for panel fixing screws (M6 thread recommended)



Flange Mounting

PX0941/02/P	2 pole Plug	PX0941/02/S	2 pole Socket
PX0941/03/P	3 pole Plug	PX0941/03/S	3 pole Socket
PX0941/04/P	4 pole Plug	PX0941/04/S	4 pole Socket
PX0941/05/P	5 pole Plug	PX0941/05/S	5 pole Socket
PX0941/07/P	7 pole Plug	PX0941/07/S	7 pole Socket
PX0941/10/P	10 pole Plug	PX0941/10/S	10 pole Socket

Additional Bulkhead Adaptor Moulding



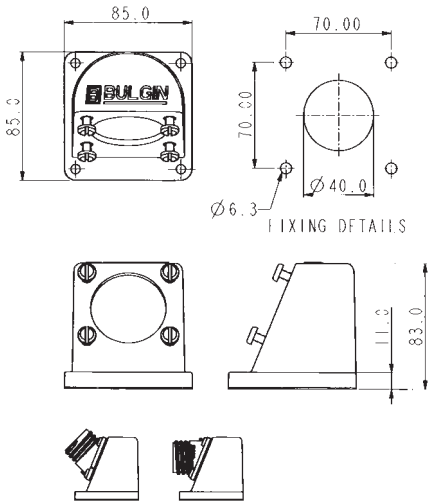
PX0950

Additional Bulkhead Adaptor



PX0950 & PX0941

- For use with flange mounting connector PX0941, to give 45° or 90° angle
- Supplied with high grade sealing gasket
- Supplied with sealing grommets for panel fixing screws (M6 thread recommended)



Accessories



PX0960, PX0970

- Sealing caps to maintain IP68 rating of unmated connectors, with plastic straps

Accessories



PX0990, PX0991, PX0992

- Heavy duty sealing caps to maintain IP68 rating of unmated connectors, with stainless steel straps

Sealing Caps

PX0960	Sealing cap for use with PX0911/xx/x and PXA911/xx/x
PX0970	Sealing cap for use with all other styles
PX0990	Heavy duty sealing cap for use with PX0911/xx/x and PXA911/xx/x
PX0991	Heavy duty sealing cap for use with PX0921/xx/x and PXA921/xx/x
PX0992	Heavy duty sealing cap for use with PX0931W and PX0941

Gland Packs

PX0980	Pack of 3 additional cable glands for PX0911 and PX0921 to suit cable sizes; 11-13mm, 9-11 and 7-9mm dia.
PXA980	Pack of 3 additional cable glands for PXA911 and PXA921 to suit cable sizes; 18-20mm, 16-18 and 14-16mm dia.

BUCCANEER FOR POWER

900 Series Buccaneer

Specifications



Electrical

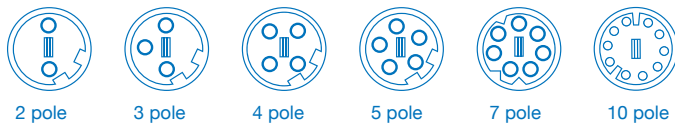
No Poles:	2, 3	4, 5	7	10†
Current Rating:	32A 30A, CSA	32A 25A, CSA	32A 25A, CSA*	10A UL
Voltage Rating:	600V ac/dc	600V ac/dc	430V ac/dc	250V ac/dc
Contact Resistance:	<10m Ω (initial)			
Insulation Resistance:	>10 ⁹ MΩ (@ 500V dc)			
Dielectric strength:	2.2kV ac min			
AC Breakdown voltage:	6kV			
Operating Temperature Range:	-40°C to +85°C			
Approvals:	 E214972  1211899  40003148 2011010203500396 – 10 Amp Rated 2011010203500396 – 32 Amp Rated			

*with 75°C min. rated cable

Material

Body Mouldings:	Polyamide
Flammability Rating:	UL94V-0
UV Resistance:	To EN50021: 1999
Contacts:	Machined Solid Brass, Nickel plated
O Rings:	Nitrile
Panel Sealing Gasket:	Silicone Rubber
RoHS	Compliant

Contact Layout



Dimensions

Overall dimensions of connectors when mated together

PX0911 + PX0921 230 mm max.
 PXA911 + PXA921 270 mm max.

PX0911 + PX0931 135 mm max. (to panel)
 PXA911 + PX0931 175 mm max. (to panel)

PX0911 + PX0941 145 mm max.
 (to panel, mid point on flange)

PXA911 + PX0941 174 mm max.
 (to panel, mid point on flange)

Mechanical:

Sealing:	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:	PX0911-PX0921 13 - 15mm O/D standard, 7-13mm with gland pack PXA911-PXA921 20 - 22mm O/D standard, 14 - 20mm with gland pack
Contact Accommodation:	2-7 pole - 2.5 to 4mm ² (13 to 10AWG) conductor, single or multi stranded 10 pole - 0.75 to 2mm ² (14 to 18AWG) conductor, single or multi stranded
Termination:	Axial screw terminals
Cable Retention force:	22mm dia, 150N 15mm dia, 150N 7mm dia, 80N
Gland Nut Torques:	PX0 range 13-15mm (Yellow - std.) 3.16Nm (28 lbf.in.) 11-13mm (black) 3.16Nm (28 lbf.in.) 7-9mm (dark grey) 3.16Nm (28 lbf.in.) PXA range 20-22mm (Yellow - std.) 3.16Nm (28 lbf.in.) 18-20mm (black) 3.16Nm (28 lbf.in.) 16-18mm (white) 3.16Nm (28 lbf.in.) 14-16mm (dark grey) 3.16Nm (28 lbf.in.)
Tightening Torques:	Panel mount nut 2.25Nm (20 lbf.in.) Flange & Bulkhead fixing screws 0.9Nm (8 lbf.in.) Inserts into Bodies 1.13Nm (10 lbf.in.) to 1.36Nm (12 lbf.in.) Term screws - 2 to 5 poles 1.0Nm (9 lbf.in.) max Term screws - 7 pole 0.4Nm (3.5 lbf.in.) max Term screws - 10 pole 0.25Nm (2.2 lbf.in.) max
Rear thread PX0931 series	M36 x 2-6g

BUCCANEER FOR POWER
900 Series Buccaneer

Part No System



PX X9	X	X	/	XX	/	X	/	XX
Series Designation	Body Styles	Contact Termination		Number Contacts		Contact Type		Cable Acceptance
09 = Standard Cable Accommodation (7-13mm) A9 = Large Cable Accommodation (14-22mm)	1 = Flex 2 = Flex In-line 3 = Panel 4 = Flange Panel	1 = Screw Terminal		02 = 2 pole 03 = 3 pole 04 = 4 pole 05 = 5 pole 07 = 7 pole 10 = 10 pole		P = Plug, S = Socket		EXP-0 version: Blank = 13-15mm Yellow cable gland (std) 3 = 11-13mm Black cable gland 2 = 9-11mm White cable gland 1 = 7-9mm Dark Grey cable gland EXP-A version: Blank = 20-22mm Yellow cable gland (std) 9 = 18-20mm Black cable gland 8 = 16-18mm White cable gland 7 = 14-16mm Dark Grey cable gland
Example: PX0911/07/P/03 = Flex cable connector with standard cable accommodation body, seven pin contacts, with gland to suit 11-13mm cable.								



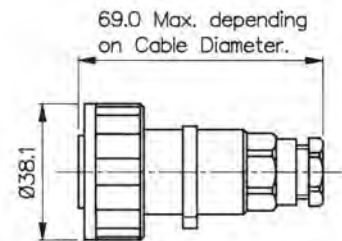
- ⬢ IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks and 9.84kg/sq cm (140lb/sq in) 100m depth for 12 hours
- ⬢ Water and dustproof to IP68 when mated
- ⬢ 2, 3, 4, 6, 7, 9, 12 and 25 pole
- ⬢ 12A, 277V ac/dc 2 pole screw terminal, 3 pole screw terminal and crimp contacts
- ⬢ 10A, 277V ac/dc 4 pole screw terminal
- ⬢ 5A, 277V ac/dc 6 and 7 pole screw terminal
- ⬢ 5A, 150V ac/dc 9 pole crimp contacts
- ⬢ 5A, 50V ac/dc 12 pole crimp and solder contacts
- ⬢ 1A, 50V ac/dc 25 pole crimp and solder contacts
- ⬢ Plug or socket connection in each body style
- ⬢ Compact design
- ⬢ Diameter over coupling ring 38mm
- ⬢ Sealing caps available to maintain IP68 rating of unmated connectors
- ⬢ 7 body styles - flex cable, in-line flex cable, panel mount (front), panel mount (rear), PCB mount, bulkhead and flange mount
- ⬢ Leading earth contact for 3 pole socket version
- ⬢ Positive locating keyways - cannot be mis-connected
- ⬢ Easy assembly - no special tools required on screw terminal versions
- ⬢ Cable range from 3.5mm - 9mm
- ⬢ Colour coded identification variants
- ⬢ Pre-wired, overmoulded cable assemblies
- ⬢ CCC, UL, CSA and VDE approvals
- ⬢ EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Flex Cable Connector



PX0731

- Mates with In-Line Flex or Panel Mounting Versions
- Screw Locking Ring
- Pin or Socket Versions
- Leading Earth on 3 pole connectors
- Poles 2, 3, 4, 6, 7, 9, 12, 25
- Standard Cable Acceptance (2 to 9 pole) 6-8mm, 3.5-9mm with alternative glands



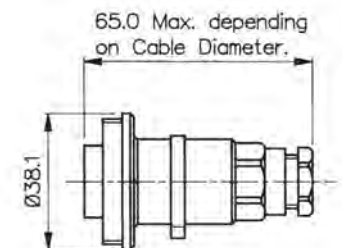
Poles	Termination	Pin Contacts	Socket Contact	Contacts
2	Screw	PX0736/P	PX0736/S	Supplied Fitted
3	Screw	PX0731/P	PX0731/S	Supplied Fitted
3	Crimp	PX0776/P	PX0776/S	Supplied Loose
4	Screw	PX0748/P	PX0748/S	Supplied Fitted
6	Screw	PX0739/P	PX0739/S	Supplied Fitted
7	Screw	PX0745/P	PX0745/S	Supplied Fitted
9	Crimp	PX0728/P	PX0728/S	Supplied Loose
12	Crimp/Solder	PX0794/P	PX0794/S	Order Separately
25	Crimp/Solder	PX0820/P	PX0820/S	Order Separately

Inline Flex Cable Connector



PX0732

- Mates with In-Line Flex or Panel Mounting Versions
- Screw Locking Ring
- Pin or Socket Versions
- Leading Earth on 3 pole connectors
- Poles 2, 3, 4, 6, 7, 9, 12, 25
- Standard Cable Acceptance (2 to 9 pole) 6-8mm, 3.5-9mm with alternative glands



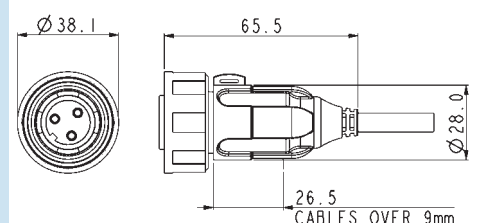
Poles	Termination	Pin Contacts	Socket Contact	Contacts
2	Screw	PX0737/P	PX0737/S	Supplied Fitted
3	Screw	PX0732/P	PX0732/S	Supplied Fitted
3	Crimp	PX0778/P	PX0778/S	Supplied Loose
4	Screw	PX0749/P	PX0749/S	Supplied Fitted
6	Screw	PX0740/P	PX0740/S	Supplied Fitted
7	Screw	PX0746/P	PX0746/S	Supplied Fitted
9	Crimp	PX0729/P	PX0729/S	Supplied Loose
12	Crimp/Solder	PX0795/P	PX0795/S	Order Separately
25	Crimp/Solder	PX0821/P	PX0821/S	Order Separately

Pre Wired Flex Cable Connector



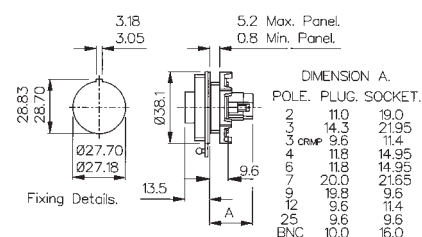
PX0700

- Overmoulded cable assemblies
- Up to 14mm dia cable with PVC or PU jackets
- PX0700 flex cable connector
- Mates with in-line flex connector and all panel connectors





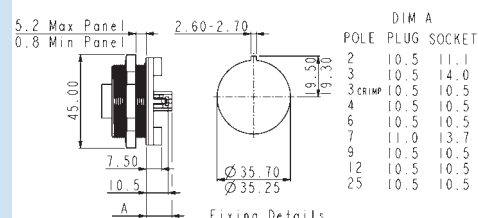
- ⬡ Mates with Flex Cable Connector
- ⬡ Front panel mounting
- ⬡ Single Hole Fixing
- ⬡ Pin or Socket Versions
- ⬡ Poles 2, 3, 4, 6, 7, 9, 12, 25



Poles	Termination	Pin Contacts	Socket Contact	Contacts
2	Screw	PX0735/P	PX0735/S	Supplied Fitted
3	Screw	PX0730/P	PX0730/S	Supplied Fitted
3	Crimp	PX0779/P	PX0779/S	Supplied Loose
4	Screw	PX0747/P	PX0747/S	Supplied Fitted
6	Screw	PX0738/P	PX0738/S	Supplied Fitted
7	Screw	PX0744/P	PX0744/S	Supplied Fitted
9	Crimp	PX0727/P	PX0727/S	Supplied Loose
12	Crimp/Solder	PX0796/P	PX0796/S	Order Separately
25	Crimp/Solder	PX0822/P	PX0822/S	Order Separately



- ⬡ Mates with Flex Cable Connector
- ⬡ Rear panel mounting
- ⬡ Single Hole Fixing
- ⬡ Pin or Socket Versions
- ⬡ Poles 2, 3, 4, 6, 7, 9, 12 or 25



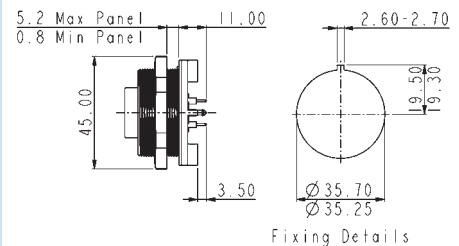
Poles	Termination	Pin Contacts	Socket Contact	Contacts
2	Screw	PX0709/P/02	PX0709/S/02	Supplied Fitted
3	Screw	PX0709/P/03	PX0709/S/03	Supplied Fitted
3	Crimp	PX0708/P/03	PX0708/S/03	Supplied Loose
4	Screw	PX0709/P/04	PX0709/S/04	Supplied Fitted
6	Screw	PX0709/P/06	PX0709/S/06	Supplied Fitted
7	Screw	PX0709/P/07	PX0709/S/07	Supplied Fitted
9	Crimp	PX0708/P/09	PX0708/S/09	Supplied Loose
12	Crimp/Solder	PX0708/P/12	PX0708/S/12	Order Separately
25	Crimp/Solder	PX0708/P/25	PX0708/S/25	Order Separately

PCB Mounting Connector



PX0707/P/12

- Mates with Flex Cable connector
- Rear panel mounting
- No. poles: 3, 4, 6, 9, 12 or 25
- Pin or socket versions
- Pre-loaded Gold Plated contacts



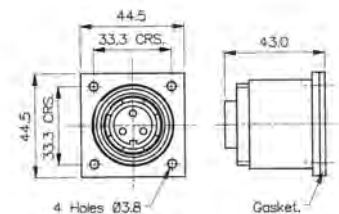
Poles	Termination	Pin Contacts	Socket Contact	Contacts
3	PCB	PX0707/P/03	PX0707/S/03	Supplied Fitted
4	PCB	PX0707/P/04	PX0707/S/04	Supplied Fitted
6	PCB	PX0707/P/06	PX0707/S/06	Supplied Fitted
9	PCB	PX0707/P/09	PX0707/S/09	Supplied Fitted
12	PCB	PX0707/P/12	PX0707/S/12	Supplied Fitted
25	PCB	PX0707/P/25	PX0707/S/25	Supplied Fitted

Bulkhead Flange Mounting Connector



PX0756/S

- Mates with Flex Cable Connector
- Screw Fixing Flange
- Pin or Socket Versions
- Poles 2, 3, 4, 6, 7, 9, 12, 25
- Supplied with sealing gasket and screw sealing grommets



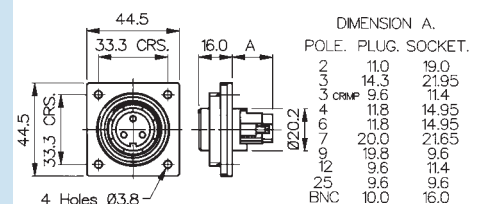
Poles	Termination	Pin Contacts	Socket Contact	Contacts
2	Screw	PX0757/P	PX0757/S	Supplied Fitted
3	Screw	PX0756/P	PX0756/S	Supplied Fitted
3	Crimp	PX0787/P	PX0787/S	Supplied Loose
4	Screw	PX0761/P	PX0761/S	Supplied Fitted
6	Screw	PX0758/P	PX0758/S	Supplied Fitted
7	Screw	PX0760/P	PX0760/S	Supplied Fitted
9	Crimp	PX0762/P	PX0762/S	Supplied Loose
12	Crimp/Solder	PX0798/P	PX0798/S	Order Separately
25	Crimp/Solder	PX0823/P	PX0823/S	Order Separately

Low Profile Flange Mounting Connector



PX0765/S

- Screw Flange Fixing
- Pin or Socket Versions
- Poles 2, 3, 4, 6, 7, 9, 12, 25
- Mates with Flex Cable Connector
- Supplied with sealing gasket and screw sealing grommets



Poles	Termination	Pin Contacts	Socket Contact	Contacts
2	Screw	PX0764/P	PX0764/S	Supplied Fitted
3	Screw	PX0765/P	PX0765/S	Supplied Fitted
3	Crimp	PX0781/P	PX0781/S	Supplied Loose
4	Screw	PX0766/P	PX0766/S	Supplied Fitted
6	Screw	PX0767/P	PX0767/S	Supplied Fitted
7	Screw	PX0768/P	PX0768/S	Supplied Fitted
9	Crimp	PX0769/P	PX0769/S	Supplied Loose
12	Crimp/Solder	PX0797/P	PX0797/S	Order Separately
25	Crimp/Solder	PX0824/P	PX0824/S	Order Separately

Coloured Contact Inserts



Coloured Inserts

- With or without matching gland nut
- Positive visual identification
- Available in; Black, Blue, Green, Grey, Light Grey, Red, White and Yellow

Contact Inserts Colour Options

Part No	Suffix Colour
Blank	Black
BL	Blue
GN	Green
GY	Grey
LG	Light Grey
RD	Red
WH	White
YL	Yellow

Insert/Gland Nut Combinations

1	Insert and Gland Nut Coloured
2	Insert Only Coloured

E.g. PX0731/P/YL1 = Yellow insert and gland nut

Contacts for 12 and 25 Pole Inserts



12 and 25 way contacts

- Crimp or Solder Pins and Sockets
- Gold Plated
- Current ratings:
12 way: 5A, 50V
25 way: 1A, 50V

Contacts - Solder & Crimp for 12 and 25 pole

Contacts (for 25 pole) (Supplied in packs of 10)	Solder	Crimp
Pins	SA3180/1	SA3180
Sockets	SA 3179/1	SA3179
Contacts (for 12 pole) (Supplied in packs of 10)	Solder	Crimp
Pins	SA3348/1	SA3348
Sockets	SA3347/1	SA3347

Assembly Tools



PNo 14025 and 13027

- Crimp Tools for 3, 9, 12 and 25 pole crimp contacts
- Insertion/Extraction Tool for 25 pole contacts

Tools

Crimp Tool (25 pole)	PNo. 14025
Crimp Tool (12 pole)	PNo. 14025
Positioner (12 pole)	PNo. 14025/5AMP
Crimp Tool (9 pole)	PNo. 13826
Crimp Tool (3 pole)	PNo. 14232
3 pole positioner	PNo. 14232/1
Insertion/Extraction Tool (25 pole)	PNo. 13027
Insertion/Extraction Tool (12 pole)	PNo. 13027/1
Insertion/Extraction Tool (3 pole)	PNo. 13027/3

Cable Glands



SA3253

- Pack of alternative cable glands to suit cables from 3.5 to 9mm dia.

Cable Acceptance - Alternatives

Gland Diameter	Gland Part No.	Gland Colour	Additional Suffix
6-8mm	12023	Black	Standard for 2-12 pole
3.5-5mm	SA3426	Grey	Suffix /04†
5-7mm	12023/1	White	Suffix /05
7-9mm	12023/2	Yellow	Suffix /07*
Gland Pack	SA3253	Pack of 3 glands to suit cables 3.5-5mm, 5-7mm & 7-9mm dia†	

*Note: 7-9mm gland standard for 25 way, no suffix required.
†Includes additional black gland cage for 3.5-5mm dia. cable range.

To order connector with alternative cable gland add suffix to part no. e.g. PX0731/P/07 = PX0731 3 pin connector with cable gland to suit 7-9mm dia. cable.

Cable Acceptance - Standard as supplied

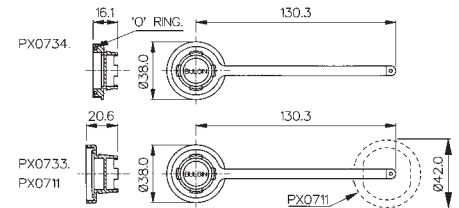
No. Contacts	Cable Diameter or Type
2-12 Pole	6-8mm
25 Pole	7-9mm

Sealing Cap and Assembling Tool



PX0734 PX0733

- Maintains IP68 Rating of Unmated Connectors
- Can be used to remove Inserts
- PX0734 for Flex Cable Connector
- PX0733 for In-line Flex, Front Panel, Bulkhead and Flange mount connectors
- PX0711 for PCB and Rear Panel Mount connectors

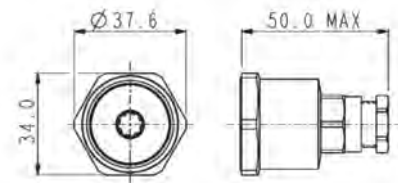


Rear of Panel Back Shell



PX0799

- Provides environmental seal to rear of panel
- Standard cable acceptance 6-8mm, 3.5 to 9mm with alternative glands
- For use on front panel mounting connectors
- Replaces mounting nut in panel connector



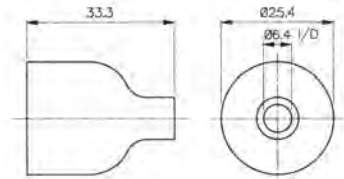
PVC Insulation Boot



PNo. 12855

- Shock protection for rear of connector
- Flammability Rating UL94V-0
- Fits Front Panel Mount Versions only

12855 for panel mounting types only.



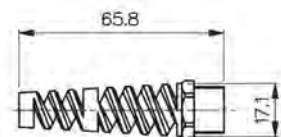
Cable Support Accessory



PNo. 12237

- Gives Extra Support to the Cable
- Suitable for 5-7mm and 7-9mm Cable Diameters

12237 provides additional cable support. Suitable for 5-7mm and 7-9mm cables.



PX0xxx	X	XX	XX	X
Body Styles	Contacts Type	Cable Acceptance or PCB/Rear Panel Mounting	Insert/Gland Nut Colour	Insert/Gland Nut Colour Combination
	P = Pin S = Socket	Flex Cable and In-line Flex Connectors cable acceptance use: Blank = 6-8mm (Black) standard for 2-12 pole 04 = 3.5-5mm (Grey) 05 = 5-7mm (White) 07 = 7-9mm (Yellow) (standard for 25 way, no suffix required) PCB (PX0707) and Rear Panel Mount connectors (PX0708 and PX0709) use: 02 = 2 pole 03 = 3 pole 04 = 4 pole 06 = 6 pole 07 = 7 pole 09 = 9 pole 12 = 12 pole 25 = 25 pole Front Panel, Bulkhead and Flange Mount - not required:	Blank = Black BL = Blue GN = Green GY = Grey LG = Light Grey RD = Red WH = White YL = Yellow	1 = Insert and Gland Nut Coloured 2 = Insert only Coloured

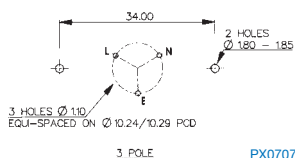
Examples:

PX0707/P/06= PCB Panel connector, pin contacts, 6 pole
PX0731/S = Flex Cable connector, socket contacts, 3 pole
PX0732/P/07/BL2 = In-Line Flex Cable connector, pin contacts, 3 pole, 7-9mm cable acceptance, blue insert

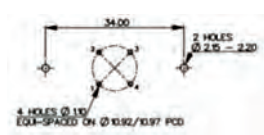
PCB Layouts

Sockets
Contact Nos viewed from rear of panel

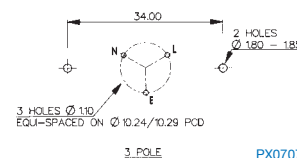
Pins
Contact Nos viewed from rear panel



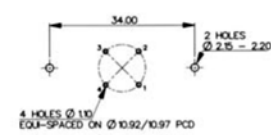
PX0707/S/03



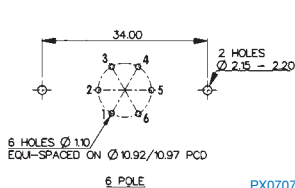
PX0707/S/04



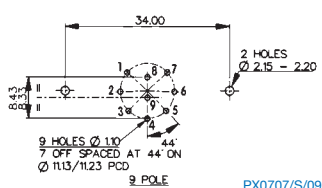
PX0707/P/03



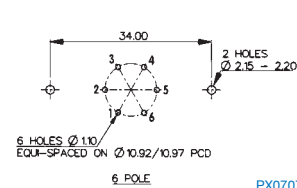
PX0707/P/04



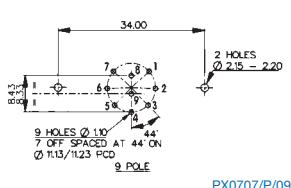
PX0707/S/06



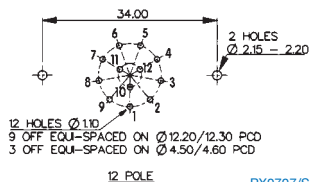
PX0707/S/09



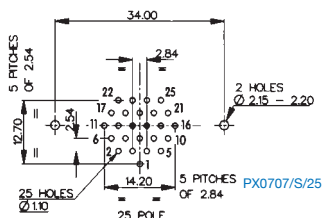
PX0707/P/06



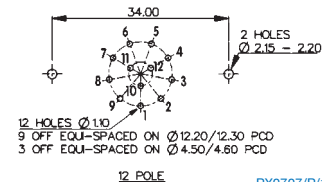
PX0707/P/09



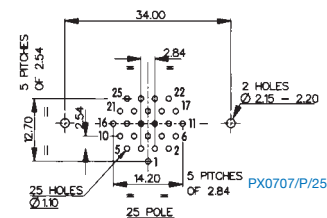
PX0707/S/12



PX0707/S/25



PX0707/P/12



PX0707/P/25

Electrical:

No. Poles:	2, 3	4	6, 7	9	12	25
Current Rating:						
VDE	12A	10A	5A	5A	5A	1A
UL, CSA	10A	6A	3A	5A	5A	1A
Voltage Rating (ac/dc):	277V	277V	277V	150V	50V	50V
Contact Resistance:	<10mΩ (2-9 Pole) <5mΩ (12 Pole) <5mΩ (25 Pole)					

Insulation Resistance:	>10 ⁴ MΩ @ 500V d.c. (2-9 Pole)					
AC Breakdown voltage:	4kV Pole - Pole (2-9 Pole) 6kV Poles - Panel (Low Profile Flange and Panel Types - 2-9 Pole) 7.5kV Poles - Panel (Other Types - 2-9 Pole)					

Operating Temp. Range: -20°C to +70°C

Approvals:

UL	E93288 and E337507
CSA	LR80968-30
VDE	40023148
CCC	2011010203500391 - 1 Amp Rated 2011010203500393 - 5 Amp Rated 2011010203500394 - 10 Amp Rated 2011010203500395 - 12 Amp Rated
	Overmoulded cable assemblies approvals to customer requirements.

Material:

Body Mouldings:	Glass Filled Polyamide UL94HB
Inserts (2-25 pole):	Polyamide UL94V-0
PX0707	Polyamide UL94V-0
PX0708	Polyamide UL94V-0
PX0709	Polyamide UL94V-0

Overmoulded types:

Body Mouldings:	Polyurethane
Flammability Rating:	UL94V-HB

Contacts:

Screw Terminal:	Brass, Nickel Plated
Crimp (9 pole):	Copper Alloy, Tin Plated
Crimp/Solder (12+25 Pole):	Copper Alloy, Gold Plated (0.1µm on Nickel)
BNC inserts:	Brass, Nickel Plated
BNC contacts:	Brass, Silver Plated

RoHS	Compliant
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Mechanical:

Sealing:	IP68, EN 60529:1992+A2:2013 Tested @ 1.054kg/sq.cm. (15lb/sq.in.) 10m depth for 2 weeks. EN 60529:1992 +A2:2013 Tested @ 9.84kg/sq.cm. (140lb/sq.in.) 100m depth for 12 hours.
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Salt Mist:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
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Cable Acceptance:	
2-12 Pole - standard gland:	6-8mm dia
2-12 Pole - alternative glands:	3.5-9mm dia
25 Pole - standard gland:	7-9mm dim
25 Pole - alternative glands:	3.5-7mm dim

Contact Accommodation:

2 and 3 pole screw terminals:	4mm ² (12AWG) max
3 pole crimp:	1.0-1.5mm ² (14-18AWG) max
4, 6 and 7 pole:	1.5mm ² (16AWG) max
9 pole:	0.12-0.21mm ² (24-26AWG)
12 pole:	0.32mm ² (22-26AWG) max
25 pole:	0.12-0.21mm ² (24-26AWG)

Terminations:

2-7 Pole:	Screw Terminals
3 Pole:	Screw Terminals & Crimp
9 Pole:	Crimp Contacts
12 Pole:	Crimp & Solder Contacts
25 Pole:	Crimp & Solder Contacts

Tightening Torques:

Flex Mounting/In-Line:	Gland Nut: 1.13Nm (10lbf.in.)
Panel Mounting:	Rear Fixing Nut: 1.7Nm (15lbf.in.) Front Fixing Nut: 1.7Nm (15lbf.in.)

Surface/Bulkhead and Low Profile Flange Mounting:

	4 Fixing Screws (using washers supplied) 0.34Nm (3lbf.in.)
Sealings Caps/Locking Ring:	1.13Nm (10lbf.in.)

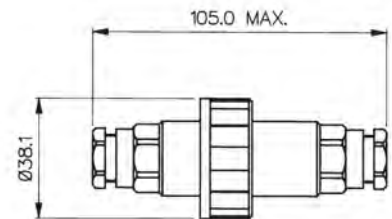
Rear thread, Front Panel Connector:	M27 x 1.0-6H
Thread, Front Panel Connector:	M35 x 1.0-6H

Cable Joiner



PX0777

- IP68 & IP69k Rating
- For Sealed In-Line Connections
- Standard Cable Acceptance 6-8mm
- Cable Range 3.5-9mm (using alternative glands)
- Supplied with 4, 6 or 8 way
- Terminal Block
- Available Moulded in Black or Orange



Specifications	PX0777	PX0777/4POLE, 6POLE, 8POLE	POLE Configurations
Rating:	16A, 250V a.c.	10A, 250V a.c.	
Wire Termination:	3 way Terminal Block	4, 6, 8 way Terminal Block	
Conductor Accommodation:	2.5mm ² max (14AWG)	1.5mm ² max (16AWG)	
Cable Acceptance:	6-8mm dia alternative glands available on request	6-8mm dia alternative glands available on request	
Material:	Glass Filled Polyamide UL94-HB	Glass Filled Polyamide UL94-V0	
Sealing:	IP68 to BSEN 60529 : 1992 1.054kg/sq.cm. (15lbs/sq.in.) 10m depth for 2 weeks	IP68 to BSEN 60529 : 1992 1.054kg/sq.cm. (15lbs/sq.in.) 10m depth for 2 weeks	
Salt Mist	IP69k to DIN 40050-9	IP69k to DIN 40050-9	
Operating Temp. Range:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1	
Operating Temp. Range:	-20°C to +70°C	-20°C to +70°C	
Colour:	Black Orange (Add /OR to PNo.)	Black Orange (Add /OR to PNo.)	
RoHS	Compliant	Compliant	

Examples

PX0777 – 3 Pole 6-8mm Black.

PX0777/04 – 3 Pole 3.5-5.0mm Black.

PX0777/04/OR – 3 Pole 3.5-5.0mm Orange.

PX0777/4POLE – 4 Pole 6-8mm Black.

PX0777/6POLE/04 – 6 Pole 3.5-5.0mm Black.

PX0777/8POLE/04/OR – 8 Pole 3.5-5.0mm Orange.

PX0777	XPOLE	XX	XX
Part No	Blank = 3 Pole 4POLE = 4 Pole 6POLE = 6 Pole 8POLE = 8 Pole	Blank = 6-8mm 04 = 3.5-5mm 05 = 5-7mm 07 = 7-9mm	Blank = Black OR = Orange



- ⬢ Water and dustproof to IP68 when mated
- ⬢ IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- ⬢ 2, 3, 4 or 6 pole screw terminal inserts
- ⬢ 3 or 8 pole solder or crimp inserts
- ⬢ 5 body styles, Flex, Flex In-Line, Panel (2 styles), Panel Side Entry
- ⬢ 50Ω or 75Ω BNC inserts
- ⬢ 5A, 380V a.c. 3 & 8 way solder/crimp terminals
- ⬢ 10A, 250V a.c. 2 & 3 way screw terminals
- ⬢ 6A, 250V a.c. 4 way screw terminal
- ⬢ 3A, 250V a.c. 6 way screw terminals
- ⬢ EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- ⬢ Plug or socket connection in each body style
- ⬢ Cable range from 3.5mm - 9mm
- ⬢ Diameter over coupling ring 26mm
- ⬢ Positive locating keyways - cannot be mis-mated
- ⬢ Sealing caps available to maintain IP68 rating of unmated connectors
- ⬢ Flammability rating UL94V-0 material
- ⬢ Leading earth contact on all types (except 2 pole)
- ⬢ Compact design
- ⬢ Easy assembly - no special tools required on screw terminal versions
- ⬢ UL approval

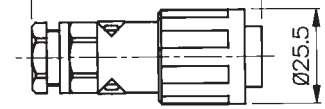
Flex Cable Connector



PX0800 - shown with insert

- PX0800 Connector body
- Mates with Flex In-line or Panel Mounting versions
- Screw locking ring
- Suitable for Pin or Socket inserts
- Cable Acceptance 3.5-9mm (Standard 5-7mm)
- Contact inserts supplied separately

61.5 Max. Depending on Cable Dia. / Pin or Socket Carrier.



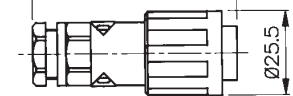
Inline Flex Cable Connector



PX0801 - shown with insert

- PX0801 Connector body
- Mates with PX0800 - Flex Cable connector
- Suitable for Pin or Socket inserts
- Cable Acceptance 3.5-9mm (Standard 5-7mm)
- Contact inserts supplied separately

61.5 Max. Depending on Cable Dia. / Pin or Socket Carrier.



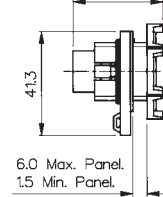
Panel Mounting



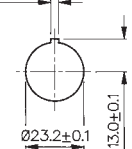
PX0802 - shown with insert

- PX0802 Connector body
- Mates with PX0800 - Flex Cable connector
- Single hole fixing
- Suitable for Pin or Socket inserts
- Contact inserts supplied separately

37.0 Max. Depending on Pin or Socket Carrier.



3.2 $\frac{+0.1}{-0.1}$



Fixing Details.

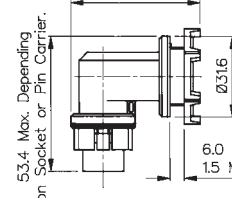
Panel Mounting



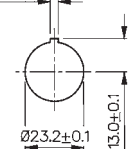
PX0803 - shown with insert

- PX0803 Connector body
- Mates with PX0800 - Flex Cable connector
- Right angle cable entry
- Single hole fixing
- Suitable for Pin or Socket inserts
- Contact inserts supplied separately

53.4 Max. Depending on Panel Thickness.



3.2 $\frac{+0.1}{-0.1}$



Fixing Details.

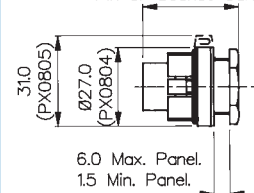
Panel Mounting



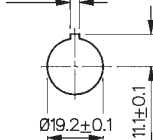
PX0805 - shown with insert

- PX0804 and PX0805 Connector bodies
- Mates with PX0800 - Flex Cable connector
- PX0804 without sealing cap retaining clip, PX0805 with sealing cap retaining clip
- Single hole fixing
- Suitable for Pin or Socket inserts
- Contact inserts supplied separately

32.8 Max. Depending on Pin or Socket Carrier.



3.2 $\frac{+0.1}{-0.1}$



Fixing Details.

Screw Terminal Inserts



- 2, 3, 4 and 6 Poles
- Fits all Body Styles
- Leading Earth Pin on 3, 4 and 6 pole inserts
- Nickel Plated contacts

Screw Terminal Inserts - fits all body styles

No. poles	Sockets	Pins
2	SA3319	SA3320
3	SA3229	SA3230
4	SA3242	SA3241
6	SA3244	SA3243

Contact Carrier Inserts



Inserts shown with contacts fitted

- For Solder or Crimp Contacts
- 3 or 8 Pin
- Fits all Body Styles
- Contacts Supplied Separately

Solder & Crimp Contact Carrier Inserts - fit all body styles.

No. poles	Solder	Colour	Crimp	Colour
8 Pin	12734/1	Black	12734	Grey
8 Socket	12735/1	Black	12735	Grey
3 Pin	12734/3/1	Black	12734/3	Grey
3 Socket	12735/3/1	Black	12735/3	Grey

Contacts, Polarising/Blanking Pins



- Gold Plated contacts
- Solder or Crimp
- Polarising/Blanking pins

Contacts - Solder & Crimp - for contact carrier inserts

Contacts (Supplied in packs of 10)	Solder	Crimp
Pins	SA3148/1	SA3148
Sockets	SA3149/1	SA3149
Polarising/Blanking Pins	SA3147	
Contact Insertion Tool: Must be used to load contacts into inserts.	SA3150	
Crimping Tool	SA2800	

BNC Insert Kit



Inserts shown assembled

- BNC inserts for 50Ω and 75Ω co-ax cables
- Includes gland and washer to suit coax cable
- Fits all Body Styles (except PX0803)

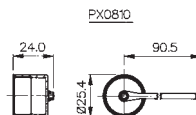
BNC Inserts - fit all body styles except PX0803

Imp	Cable Type	Contacts	Part No
50Ω	RG58/CU, URM43, URM76	Plug	SA3159/1
50Ω	RG58/CU, URM43, URM76	Socket	SA3157/1
75Ω	URM70	Plug	SA3159
75Ω	URM70	Socket	SA3157

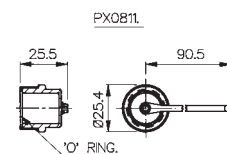
Sealing Caps



To maintain IP rating



PX0810
Fits PX0801, PX0802, PX0803, PX0804 & PX0805. Ensure "O" Ring is in place on main body.



PX0811
Fits PX0800. Ensure "O" Ring is in place in cap.

Electrical	Solder/Crimp Terminals	Screw Terminals	BNC
No Poles:	3, 8	2, 3	6
Current Rating:	5A	10A	3A
Voltage Rating:	380V ac	250V ac	250V ac
Contact Resistance:	<5mΩ		
Insulation Resistance:	>10 ⁶ MΩ @ 500V d.c.		
Voltage Proof:	2kV @ 50Hz		
Operating Temp. Range:	-20°C to +70°C		
Approvals:			
 E214972			

Materials	Solder/Crimp Terminals	Screw Terminals	BNC
Body Mouldings:	Polyamide UL94V-0	Polyamide UL94V-0	
Inserts:	Polyamide UL94V-0	Polyamide UL94V-0	
Contacts:	Copper Alloy, Gold Plated (0.1µm) on Nickel	Brass, Nickel Plated	Brass, Silver Plated.
O Rings:	Nitrile		
RoHS	Compliant	Compliant	Compliant

Mechanical	Solder/Crimp Terminals	Screw Terminals	BNC
Sealing:	Protection Classification IP68, EN 60529:1992+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	5-7.00mm dia - standard gland 3.5-9.00mm dia - alternative glands		
Contact Accommodation:	0.2 - 0.5mm ² (20 - 24 AWG)	1mm ² max (18 AWG)	50Ω: RG58/CU, URM43, URM76 75Ω: URM70
Insertion Force (typical):	3 way: 5N (1.1lbf) 8 way: 14N (3.1lbf)	3 way: 45N (10lbf) 4 way: 50N (11lbf) 6 way: 140N (31lbf)	
Withdrawal Force (typical):	3 way: 3N (0.66lbf) 8 way: 12N (2.6lbf)	3 way: 32N (7lbf) 4 way: 40N (9lbf) 6 way: 150N (34lbf)	
Tightening Torques			
Gland Nut, PX0800, 801:	1.13Nm (10lbf in)		
Rear Nut, PX0802, 803, 804, 805:	0.7Nm min, 1.7Nm max (6.2lbf in min, 15lbf in max)		
Sealing Cap, PX0810, 811:	0.23Nm min, 1.13Nm max (2lbf in min, 10lbf in max)		

How to order	Cable Glands			
Choose body type, check cable diameter and sealing gland size.	Cable gland for 5-7mm fitted as standard. BNC Insert Kit includes gland & washer to fit coax cable.			
Determine contact carrier inserts. Choose number of poles, and type of contacts (solder, crimp, screw terminal or BNC).				
Choose pins or sockets. Solder and crimp contacts are supplied separately in packs of ten.	Cable Diameter	Gland Part No.	Gland Colour	Additional Suffix
Choose polarising/blanking pins. If required for solder/crimp contact inserts. Supplied in packs of ten.	5-7mm	12023/1	White	Fitted as standard
	3.5-5mm	SA3426	Grey	Suffix /04†
	6-8mm	12023	Black	Suffix /06
	7-9mm	12023/2	Yellow	Suffix /07
Is an insertion tool required (for solder or crimp contacts)?	Gland Pack	PX0812	Pack of 3 glands to suit cables 3.5-5mm, 6-8mm, 7-9mm dia†	
Is a crimp tool required?				
Is a sealing cap required?	To order body with alternative cable gland add suffix to part no. e.g. PX0800/06 = PX0800 body with cable gland to suit 6-8mm dia. cable. †Includes additional black gland cage for 3.5-5mm dia. cable range.			



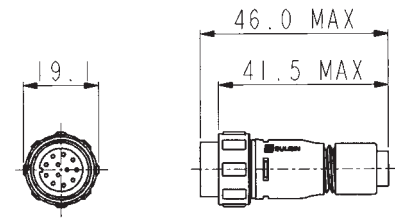
- ⬢ Sealed to IP68 when mated
- ⬢ IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- ⬢ 2 and 3 pole - 8A, 250V rating
- ⬢ 4, 6 and 8 pole - 5A, 125V rating
- ⬢ 10 and 12 pole - 1A, 50V rating
- ⬢ 2.5mm contact engagement for electrical integrity 'Scoop proof' contacts
- ⬢ Contact 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
- ⬢ CCC, UL, CSA and VDE approvals
- ⬢ EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Flex Cable Connector



PX0410

- 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

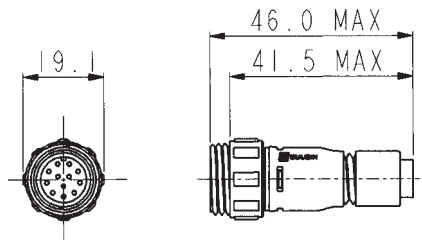


Inline Flex Cable Connector



PX0411

- 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

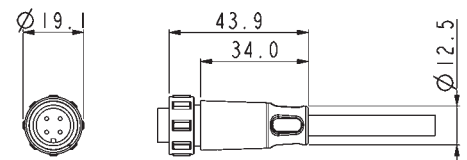


Pre Wired Flex Cable Connector



PX0400

- 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

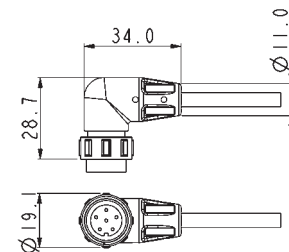


Pre Wired Flex Cable Connector



PX0402

- 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

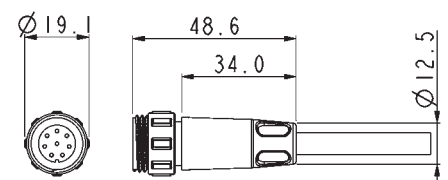


Pre Wired Inline Flex Connector



PX0401

- 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

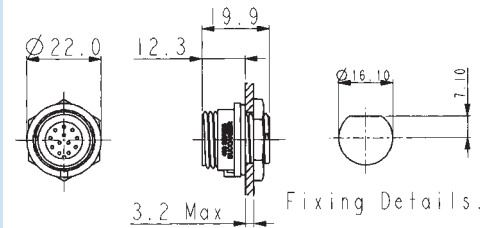


Front Panel Mounting Connector



PX0412

- 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

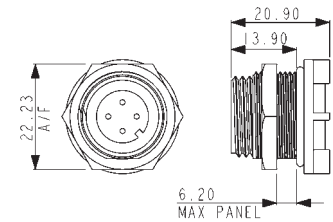


Rear Panel Mounting Connector



PX0413

- 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

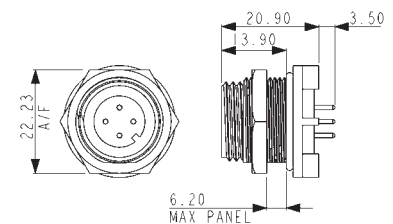


PCB Mounting Connector



PX0413

- 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



Sealing Caps and Accessories



PX0480 PX0480/1 PX0481 PX0484

- 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)

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

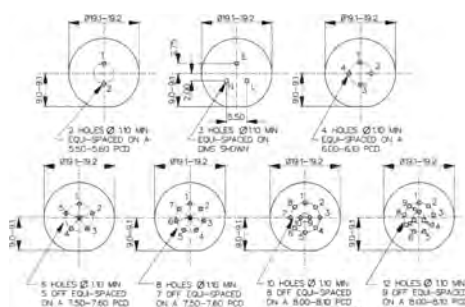
Crimp tools

	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

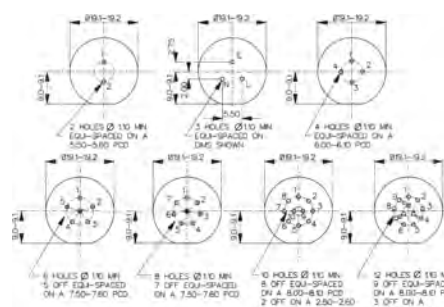
Sockets

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	50Vdc
Contact Resistance:	<5mΩ		
Insulation Resistance:	>10 ⁹ MΩ (@ 500V d.c.)		
AC Breakdown voltage:	2.5kV		

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

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
	Compliant

Mechanical:

Sealing:	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

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).					

6000 Series Buccaneer – **circular connectors** that combine the ease of use of a **push/pull coupling mechanism** with proven environmental sealing. Available with **metal** or **plastic** bodies, the range supports both data (USB and Ethernet), 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.

- **Push/Pull mechanism**
Secure, quick connector mating and release
- **30° twist locking**
Tamperproof lock prevents accidental un-mating
- **IP66, IP68 and IP69K when mated**
Suitable for a wide range of dust and water borne environments
- **All plastic body version; UL94-V0 rated, UV stable, halogen free**
Light-weight, self-extinguishing material suitable for long-term outdoor use
- **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 22 poles – up to 16A, 277V rated**
Suitable for mains power to signal applications
- **‘Scoop proof’ contacts**
Prevents damage through mis-mating – ideal for ‘blind mating’ applications
- **cULus, UL, VDE**
Internationally recognised certification
- **Screw, Crimp and Solder terminations available**



BUCCANEER FOR POWER

6000 Series Buccaneer

Thermo Plastic

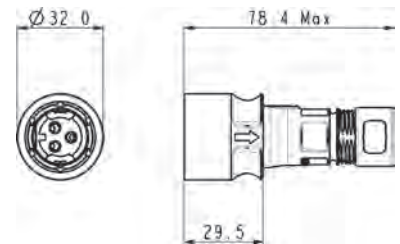


Flex Cable Connector



PXP6010

- Mates with In-Line Flex or Panel Mounting versions PXP6011 & PXP6012
- Push/pull locking ring with 30° twist locking
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 8, 16 & 22 pole
- Screw, solder and crimp termination



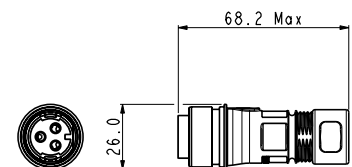
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXP6010/02P/ST	PXP6010/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6010/02P/CR	PXP6010/02S/CR	Contacts Required
3	Screw	PXP6010/03P/ST	PXP6010/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6010/03P/CR	PXP6010/03S/CR	Contacts Required
8	Crimp / Solder	PXP6010/08P/CR	PXP6010/08S/CR	Contacts Required
16	Crimp / Solder	PXP6010/16P/CR	PXP6010/16S/CR	Contacts Required
22	Crimp / Solder	PXP6010/22P/CR	PXP6010/22S/CR	Contacts Required

In-line Flex Cable Connector



PXP6011

- Mates with Flex Cable connector PXP6010
- For in-line cable connection
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 8, 16 and 22 pole
- Screw, solder and crimp termination



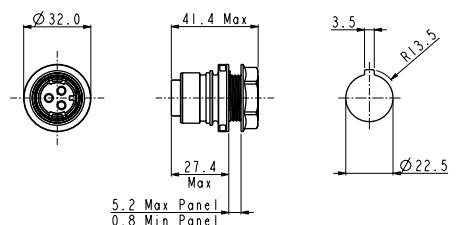
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXP6011/02P/ST	PXP6011/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6011/02P/CR	PXP6011/02S/CR	Contacts Required
3	Screw	PXP6011/03P/ST	PXP6011/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6011/03P/CR	PXP6011/03S/CR	Contacts Required
8	Crimp / Solder	PXP6011/08P/CR	PXP6011/08S/CR	Contacts Required
16	Crimp / Solder	PXP6011/16P/CR	PXP6011/16S/CR	Contacts Required
22	Crimp / Solder	PXP6011/22P/CR	PXP6011/22S/CR	Contacts Required

Front Panel Mounting Connector



PXP6012

- Mates with Flex Cable connectors PXP6010
- Front panel mounting
- Single hole fixing
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 8, 16 and 22 pole
- Screw, solder and crimp termination



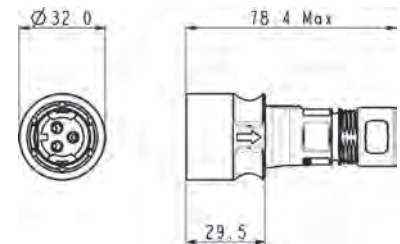
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXP6012/02P/ST	PXP6012/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6012/02P/CR	PXP6012/02S/CR	Contacts Required
3	Screw	PXP6012/03P/ST	PXP6012/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6012/03P/CR	PXP6012/03S/CR	Contacts Required
8	Crimp / Solder	PXP6012/08P/CR	PXP6012/08S/CR	Contacts Required
16	Crimp / Solder	PXP6012/16P/CR	PXP6012/16S/CR	Contacts Required
22	Crimp / Solder	PXP6012/22P/CR	PXP6012/22S/CR	Contacts Required

Flex Cable Connector



PXM6010

- Mates with In-Line Flex or Panel Mounting versions PXM6011 and PXM6012
- Push/pull locking ring with 30° twist locking
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 8, 16 and 22 pole
- Screw, solder and crimp termination
- Cable braid termination accessory option, add /SNsuffix



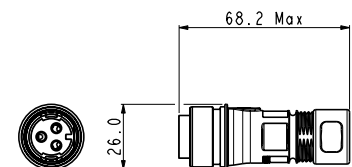
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXM6010/02P/ST	PXM6010/02S/ST	Supplied Fitted
2	Crimp / Solder	PXM6010/02P/CR	PXM6010/02S/CR	Contacts Required
3	Screw	PXM6010/03P/ST	PXM6010/03S/ST	Supplied Fitted
3	Crimp / Solder	PXM6010/03P/CR	PXM6010/03S/CR	Contacts Required
8	Crimp / Solder	PXM6010/08P/CR	PXM6010/08S/CR	Contacts Required
16	Crimp / Solder	PXM6010/16P/CR	PXM6010/16S/CR	Contacts Required
22	Crimp / Solder	PXM6010/22P/CR	PXM6010/22S/CR	Contacts Required

In-line Flex Cable Connector



PXM6011

- Mates with Flex Cable connector PXM6010
- For in-line cable connection
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 8, 16 and 22 pole
- Screw, solder and crimp termination
- Cable braid termination accessory option, add /SNsuffix



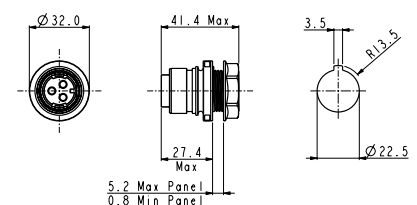
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXM6011/02P/ST	PXM6011/02S/ST	Supplied Fitted
2	Crimp / Solder	PXM6011/02P/CR	PXM6011/02S/CR	Contacts Required
3	Screw	PXM6011/03P/ST	PXM6011/03S/ST	Supplied Fitted
3	Crimp / Solder	PXM6011/03P/CR	PXM6011/03S/CR	Contacts Required
8	Crimp / Solder	PXM6011/08P/CR	PXM6011/08S/CR	Contacts Required
16	Crimp / Solder	PXM6011/16P/CR	PXM6011/16S/CR	Contacts Required
22	Crimp / Solder	PXM6011/22P/CR	PXM6011/22S/CR	Contacts Required

Front Panel Mounting Connector



PXM6012

- Mates with Flex Cable connectors PXM6010
- Front panel mounting
- Single hole fixing
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 8, 16 and 22 pole
- Screw, solder and crimp termination



Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXM6012/02P/ST	PXM6012/02S/ST	Supplied Fitted
2	Crimp / Solder	PXM6012/02P/CR	PXM6012/02S/CR	Contacts Required
3	Screw	PXM6012/03P/ST	PXM6012/03S/ST	Supplied Fitted
3	Crimp / Solder	PXM6012/03P/CR	PXM6012/03S/CR	Contacts Required
8	Crimp / Solder	PXM6012/08P/CR	PXM6012/08S/CR	Contacts Required
16	Crimp / Solder	PXM6012/16P/CR	PXM6012/16S/CR	Contacts Required
22	Crimp / Solder	PXM6012/22P/CR	PXM6012/22S/CR	Contacts Required

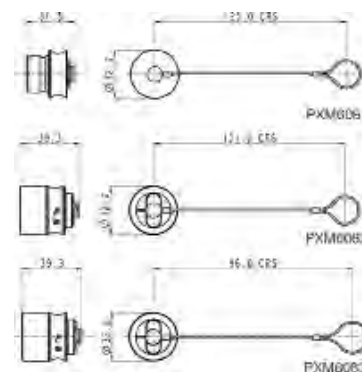
Crimp / Solder Contacts  2, 3, 8, 16 & 22 pole contacts	○ Gold Plated ○ Current ratings: 2 & 3 pole : 16A 8 pole : 10A 16 pole : 3A 22 pole : 2A	Contacts (for 2 & 3 pole) (Supplied in packs of 10) Pins Sockets Crimp Solder SA3545/P SA3624/P SA3545/S SA3624/S Contacts (for 8 pole) (Supplied in packs of 10) Pins Sockets Crimp Solder SA3544/P SA3623/P SA3544/S SA3623/S Contacts (for 16 & 22 pole) (Supplied in packs of 10) Pins Sockets Crimp Solder SA3542/P SA3622/P SA3542/S SA3622/S
Crimp Tooling  PNo 14232	○ Crimp Tools for 2, 3, 8, 16 and 22 pole crimp contacts	Crimp Tooling Crimp Tool (2 & 3 pole) Positioner (2 & 3 pole) Crimp Tool (8, 16 & 22 pole) Positioner (8 pole) Positioner (16 & 22 pole) PNo.14232 PNo.14232/2/SP PNo.14025 PNo.15021/SP PNo.15019/SP
Extraction Tool 	○ Extraction Tool for 2, 3, 8, 16 and 22 pole contacts	Extraction Tools Extraction Tool (2 & 3 pole) Extraction Tool (8 pole) Extraction Tool (16 & 22 pole) PNo.14946/SP PNo.14945/SP PNo.14944/SP
Contact Carrier Removal Tool  PNo 14917	○ For removal of all contact carriers	Tools Contact carrier removal tool (all poles) PNo. 14917/SP

Sealing Caps



PXM6083 PXM6082 PXM6081

- Maintains IP Rating of Unmated Connectors
- PXM6081: Fits PXM6010 (Flex Connector)
- PXM6082: Fits PXM6011 (Flex In-Line Connector)
- PXM6083: Fits PXM6012 (Panel Connector)



Cable Gland Pack



PXP6088

- Pack of all cable glands to suit cable ranges from 4.0 to 10.0mm diameter

Cable Braid Termination Option



PXM6090

- For cable braid termination
- Supplied with ty-rap

PXX / 6XXX / XX / X / XX / XXXX / XX						
Series Designation	Series / Body Style	No. of Contacts	Contacts Type	Terminations	Cable Entry Size	Cable Brand Termination Accessory
PXM= Metal Series PXP= Plastic Series	Body Styles 6010 = Flex 6011 = Flex In-Line 6012 = Panel	No. of Contacts 02 = 2 Pole 03 = 3 Pole 08 = 8 Pole 16 = 16 Pole 22 = 22 Pole	Contacts Type P = Pin S = Socket	Contacts Termination CR = Contacts Required ST = Screw (2 and 3 pole only)	Cable Entry Size (for Flex and Flex In-Line connectors only) 0405 = 4-5mm (Dark Grey) 0507 = 5-7mm (White) 0709 = 7-9mm (Yellow) 0910 = 9-10mm (Light Grey)	Cable Braid Termination Accessory (for Flex and Flex In-Line connectors only) SN if required Blank if not required

Examples

PXM6010/03P/CR/0507= Flex cable connector, 3 pole, pin contacts with 5 to 7mm cable glands
 PXM6012/03/S/ST= Front panel mounting connector, 3 pole, socket with screw termination

Electrical:

No. Poles:	2	3	8	16	22
Current Rating: See de-rating curves for further information					
VDE	16A	16A	10A	3A	2A
UL	16A	16A	7A	3A	3A
cUL	11A	11A	4A	1.5A	1.5A
CCC					
Voltage	277V	277V	277V	60V	60V
Rated cable	18 AWG	18 AWG	18 AWG	22 AWG	26 AWG
Contact Resistance:	<10mΩ				
Insulation Resistance:	>10 ⁹ MΩ @500V dc				
AC Breakdown voltage:					
2 pole	>10kV				
3 pole	>8kV				
8 to 22 pole	>5kV				
Operating Temp. Range:	-40°C to +120°C				
Approvals:					
 UL (E214972)	UL1977				
 cULus (E214972)	C22.2 No.182.3-M1987 (R2009)				
 VDE (40039281)	IEC 61984:2009				
 CCC (Pending)					

Mechanical:

Locking mechanism	Push/pull with 30° locking Patent applied for
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 crimp / solder	14 to 18AWG
2 & 3 pole screw terminals	1.5mm ² max
8 pole crimp / solder	18 to 20AWG
16 pole crimp / solder	22 to 26AWG
22 pole crimp / solder	22 to 26AWG
Cable Acceptance:	4-10mm dia.
Cable retention force (to BS EN61984):	
4 - 9mm dia cable	80N
9 - 10mm dia cable	100N
Terminations:	
2 Pole:	Screw Terminals
3 Pole:	Screw, crimp or solder terminals
8 Pole:	Crimp / Solder Contacts
16 Pole:	Crimp / Solder Contacts
22 Pole:	Crimp / Solder Contacts
Tightening Torques:	
Gland Nut:	1.13Nm (10lb.in)
Panel Nut:	1.7Nm (15lb.in.)
Panel Nut Thread:	M22 x 1.5-6g
Dimensions:	
Diameter: (over coupling ring)	32mm
Diameter: (panel hole cut-out)	22.5mm

Materials:

Plastic

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

Metal

Body:	Brass
Colour:	Matt silver
Contacts:	Brass, Nickel Plate (Screw and Crimp) Brass, (3A – Gold plated)
O Rings & Gaskets:	Silicone
Flammability Rating:	-
Halogen free	-
UV Resistance:	-
	Compliant

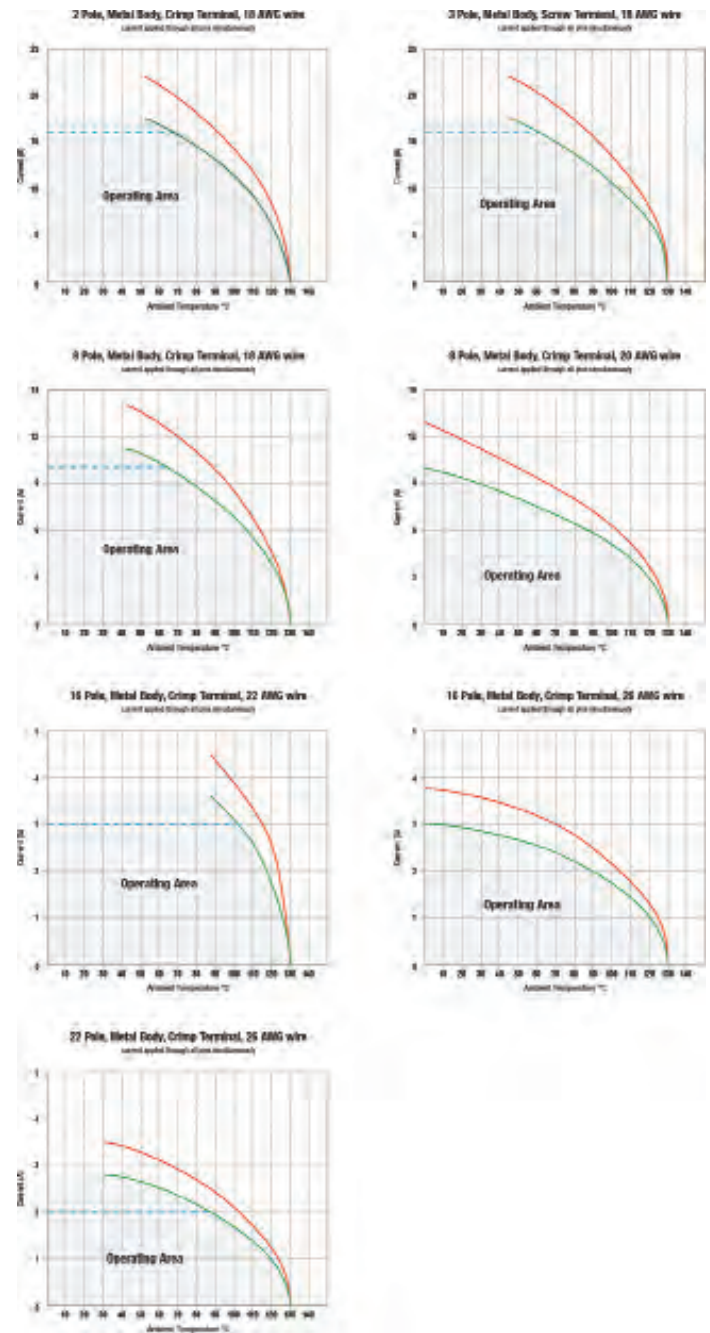
The thermal properties of the materials used in the construction of a connector limit the current carrying capacity. There are a number of factors that determine the amount of current that can be handled: contact spacing, size of cable, ambient temperature and the heat that is generated by the current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



The all plastic and metal construction of the 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.

- **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 plastic body version; UL94-V0 rated, UV stable, halogen free**
Light-weight, self-extinguishing material suitable for long-term outdoor use
- **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**
approvals Internationally recognised certification (pending)
- **Screw, Crimp and Solder terminations available**
- **EN60068-2-52 Test Kb Salt Mist (Cyclic)**
Marine Severity Level 1

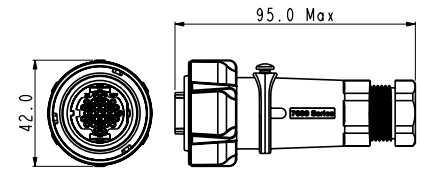


Flex Cable Connector



PXP7010

- ⬡ Mates with In-Line Flex or Panel Mounting versions PXP7011 & PXP7012
- ⬡ Quick turn locking ring
- ⬡ Pin or socket versions
- ⬡ Leading earth on 3 pole connectors
- ⬡ 2, 3, 6, 10 & 32 pole
- ⬡ Screw solder and crimp termination



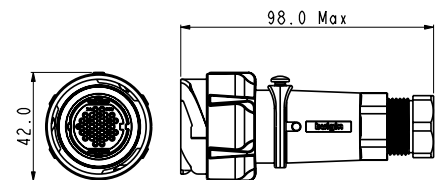
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXP7010/02P/ST	PXP7010/02S/ST	Supplied Fitted
3	Screw	PXP7010/03P/ST	PXP7010/03S/ST	Supplied Fitted
6	Screw	PXP7010/06P/ST	PXP7010/06S/ST	Supplied Fitted
10	Crimp / Solder	PXP7010/10P/CR	PXP7010/10S/CR	Contact Required
32	Crimp / Solder	PXP7010/32P/CR	PXP7010/32S/CR	Contact Required

In-line Flex Cable Connector



PXP7011

- ⬡ Mates with Flex Cable connector PXP7010
- ⬡ For in-line cable connection
- ⬡ Pin or socket versions
- ⬡ Leading earth on 3 pole connectors
- ⬡ 2, 3, 6, 10 and 32 pole
- ⬡ Screw solder and crimp termination



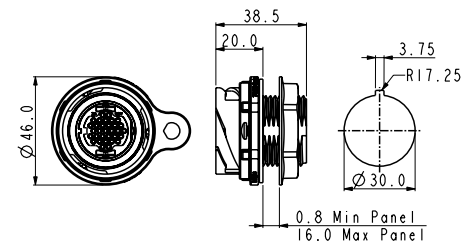
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXP7011/02P/ST	PXP7011/02S/ST	Supplied Fitted
3	Screw	PXP7011/03P/ST	PXP7011/03S/ST	Supplied Fitted
6	Screw	PXP7011/06P/ST	PXP7011/06S/ST	Supplied Fitted
10	Crimp / Solder	PXP7011/10P/CR	PXP7011/10S/CR	Contact Required
32	Crimp / Solder	PXP7011/32P/CR	PXP7011/32S/CR	Contact Required

Front Panel Mounting Connector



PXP7012

- ⬡ Mates with Flex Cable connectors PXP7010
- ⬡ Front panel mounting
- ⬡ Single hole fixing
- ⬡ Pin or socket versions
- ⬡ Leading earth on 3 pole connectors
- ⬡ 2, 3, 6, 10 and 32 pole
- ⬡ Screw solder and crimp termination



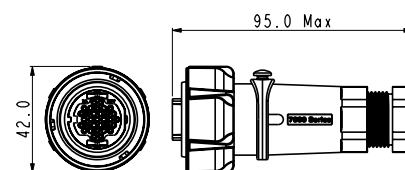
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXP7012/02P/ST	PXP7012/02S/ST	Supplied Fitted
3	Screw	PXP7012/03P/ST	PXP7012/03S/ST	Supplied Fitted
6	Screw	PXP7012/06P/ST	PXP7012/06S/ST	Supplied Fitted
10	Crimp / Solder	PXP7012/10P/CR	PXP7012/10S/CR	Contact Required
32	Crimp / Solder	PXP7012/32P/CR	PXP7012/32S/CR	Contact Required

Flex Cable Connector



PXM7010

- 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 solder and crimp termination
- Cable braid termination accessory option, add /SNSuffix



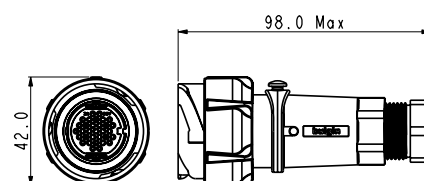
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXM7010/02P/ST	PXM7010/02S/ST	Supplied Fitted
3	Screw	PXM7010/03P/ST	PXM7010/03S/ST	Supplied Fitted
6	Screw	PXM7010/06P/ST	PXM7010/06S/ST	Supplied Fitted
10	Crimp / Solder	PXM7010/10P/CR	PXM7010/10S/CR	Contact Required
32	Crimp / Solder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

In-line Flex Cable Connector



PXM7011

- 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 solder and crimp termination
- Cable braid termination accessory option, add /SNSuffix



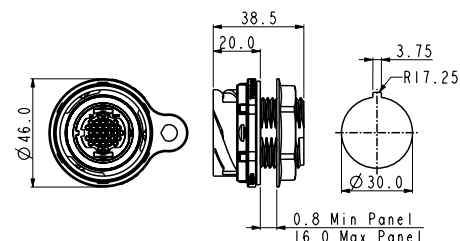
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXM7011/02P/ST	PXM7011/02S/ST	Supplied Fitted
3	Screw	PXM7011/03P/ST	PXM7011/03S/ST	Supplied Fitted
6	Screw	PXM7011/06P/ST	PXM7011/06S/ST	Supplied Fitted
10	Crimp / Solder	PXM7011/10P/CR	PXM7011/10S/CR	Contact Required
32	Crimp / Solder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

Front Panel Mounting Connector



PXM7012

- 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 solder 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 / Solder	PXM7012/10P/CR	PXM7012/10S/CR	Contact Required
32	Crimp / Solder	PXM7012/32P/CR	PXM7012/32S/CR	Contact Required

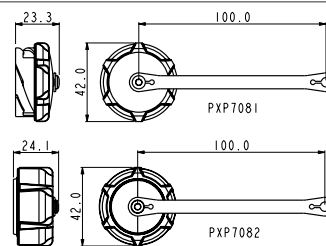
Crimp / Solder Contacts  10 & 32 pole contacts	Gold Plated Current ratings: 10 pole: 10A 32 pole: 2A	Contacts (for 10 pole) (Supplied in packs of 10) Pins Sockets Crimp SA3544/P SA3544/S Solder SA3623/P SA3623/S Contacts (for 32 pole) (Supplied in packs of 10) Pins Sockets Crimp SA3542/P SA3542/S Solder SA3622/P SA3622/S
Crimp Tooling  PNo 14025	Crimp Tools for 10 and 32 pole crimp contacts	Crimp Tooling Crimp Tool (10 & 32 pole) Positioner (10 pole) Positioner (32 pole) PNo. 14025 PNo. 15021/SP 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) Extraction tool (32 pole) PNo. 14945/SP PNo. 14944/SP
Contact Carrier Removal Tool  PNo 15065/SP	For removal of all contact carriers	Contact Carrier Removal Tool Contact carrier removal tool (all poles) PNo. 15065/SP
Cable Braid Termination Option  PXM7090	For cable braid termination Supplied with ty-rap	

Sealing Caps



PXP7082 PXP7081

- Maintains IP rating of unmated connectors
- PXP7081: Fits PXP7010 (Flex Connector)
- PXP7082: Fits PXP7011 (FlexIn-Line Connector) and PXP7012: (Panel Connector)

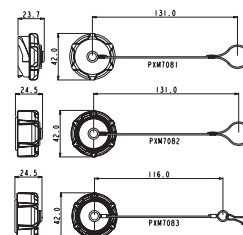


Sealing Caps



PXM7082 PXM7081 PXM7083

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



Cable Gland Packs



PXP7088/ *

- Packs of cable glands, cages and gland nuts to suit cables ranges from 5.0 to 15.0mm diameter
- PXP7088/0507: for cable ranges between 5.0 and 7.0mm
- PXP7088/0713: for cable ranges between 7.0 and 13.0mm
- PXP7088/1315: for cable ranges between 13.0 and 15.0mm

PXX	7XXX	/	XX	X	/	XX	/	XXXX	/	XX
Series Designation	Series / Body Style	No. of Contacts	Contacts Type	Terminations	Cable Entry Size	Cable Brand Termination Accessory				
PXM= Metal Series PXP= Plastic Series	7010 = Flex 7011 = Flex In-Line 7012 = Panel	02 = 2 Pole 03 = 3 Pole 06 = 6 Pole 10 = 10 Pole 32 = 32 Pole	P = Pin S = Socket	ST = Screw Terminal (2, 3, & 6 pole only) CR = Contacts Required (10 & 32 pole only)	(for Flex and Flex In-Line connectors only) 0507 = 5-7mm (grey) 0709 = 7-9mm (white) 0911 = 9-11mm (black) 1113 = 11 to 13 mm (yellow) 1315 = 13 to 15 mm (light grey)	(for Flex and Flex In-Line connectors only) SN - If requires Blank - If not required				

Examples

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

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

Electrical:

No Poles:	2	3	6	10	32
Current Rating:					
CCC, UL and VDE	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 ⁶ 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 (pending):					
 UL (Pending)	UL1977				
 cULus (Pending)	C22.2 No.182.3-M1987 (R2009)				
 VDE (Pending)	IEC 61984:2009				
 CCC (Pending)	GB/T11918 and GB/T11919				

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

Materials:

Plastic

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)

Metal

Cast zinc alloy, nickel plated
Matt silver
Brass, Nickel Plate (Screw and Crimp) Brass, (3A – Gold plated)

RoHS

Compliant

Compliant

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.

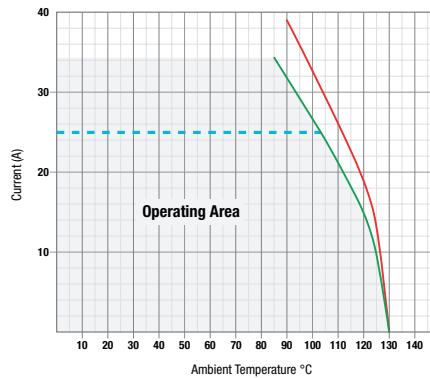
The red line indicates the direct correlation between current applied and the measured temperature rise within the connector. The dotted blue line shows rated current and the green line is derived by applying a factor of 0.8 to the original plot data to give a de-rating curve. The dashed blue line shows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

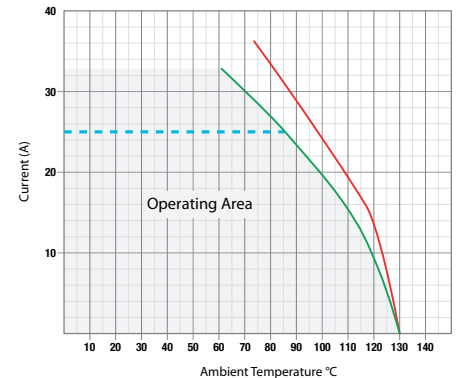
7000 Series Current vs. Temperature Characteristics

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



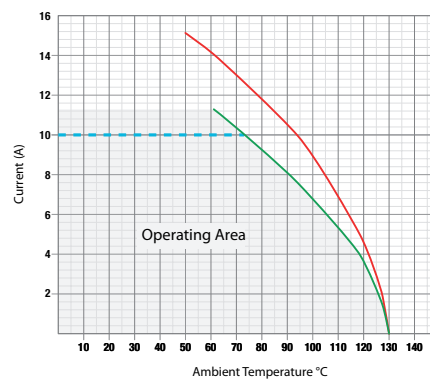
7000 Series Current vs. Temperature Characteristics

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



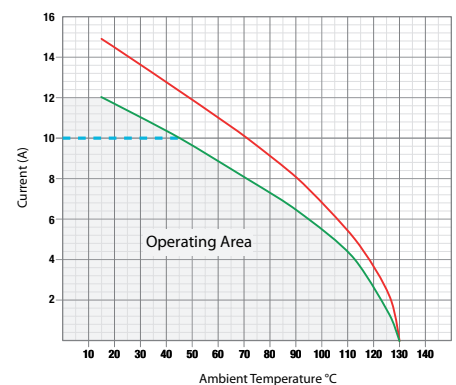
7000 Series Current vs. Temperature Characteristics

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



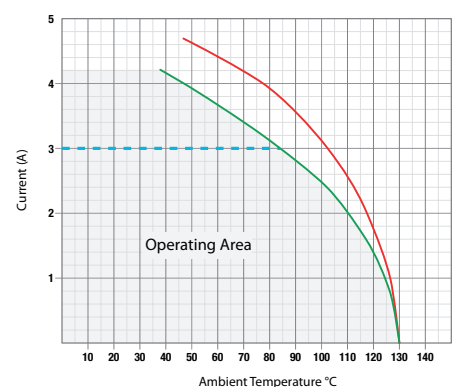
7000 Series Current vs. Temperature Characteristics

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



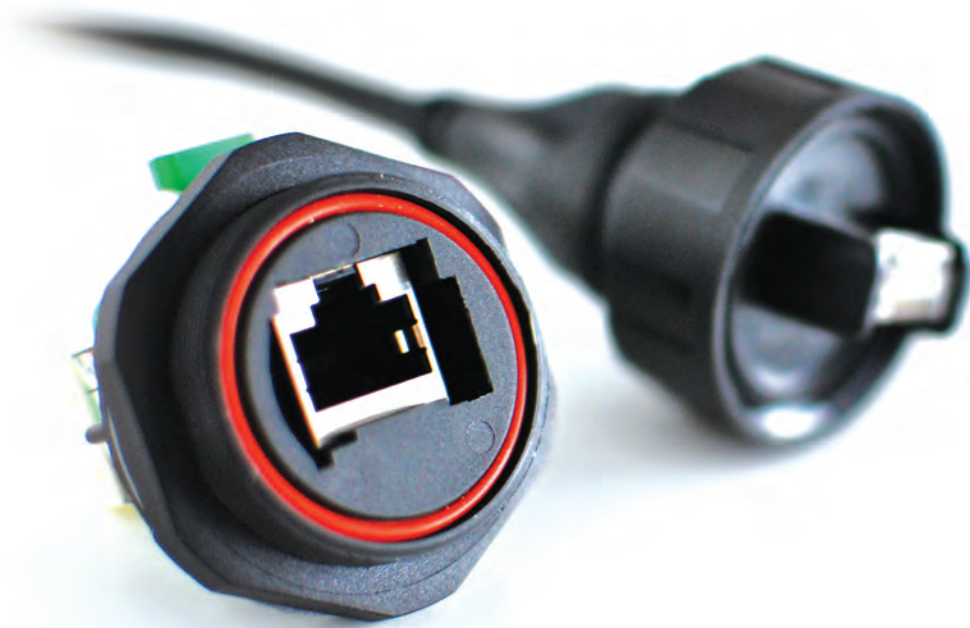
A full range of **IP68** rated environmentally **sealed circular connectors** designed to provide secure and safe connections in harsh or hostile conditions.

The Data Buccaneer range now includes designs specifically for Ethernet, USB and SMB applications. Ethernet Buccaneer meets Cat 5e requirements for data rates up to 100Mbps, USB Buccaneer is designed to meet USB version 2.0 specification for data rates up to 480Mbps, SMB Buccaneer has a frequency response up to 4GHz.

The Buccaneer series finds numerous applications either in external or internal environments where protection against the ingress of dust and moisture is a system requirement.



Standard Buccaneer - Ethernet	56-61
Standard Buccaneer - USB	62-67
400 Series - Mini USB Buccaneer	68-72
400 Series - SMB Buccaneer	73-75
400 Series - Wireless Buccaneer	76-82
6000 Series Buccaneer - USB	83-88
6000 Series Buccaneer - Ethernet	89-93



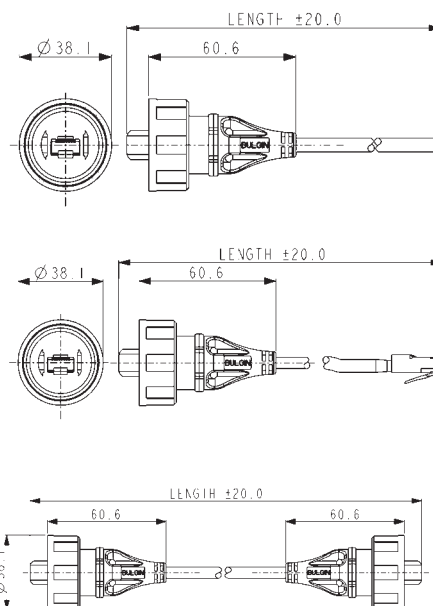
- ⬢ IP68 rated
- ⬢ Cat 5e compliant
- ⬢ PUR jacket on cable
- ⬢ Shielded system
- ⬢ Cat 5e shielded coupler
- ⬢ Shroud on RJ45
- ⬢ Screw coupling
- ⬢ Rewireable flex connector
- ⬢ PCB mounted panel connector
- ⬢ IDC termination panel connector
- ⬢ Earth lead version of panel adaptor
- ⬢ EN60068-2-52 Test Kb Salt Mist (Cyclic)
Marine Severity Level 1
- ⬢ Dust and waterproof sealing when mated
- ⬢ Data rate up to 100MHz
- ⬢ Good chemical resistance, flame retardant
- ⬢ High noise immunity and EMI protection
- ⬢ Maintains shielding
- ⬢ Protection from abuse and mis-mating
- ⬢ Secure, proven locking system
- ⬢ Ability to 'field' terminate
- ⬢ Direct PCB mount panel connector
- ⬢ Simple termination
- ⬢ Continuous screening of panel mount connector

Patch Cord Flex Connector - PUR



PX0836

- Mates with all panel mounting connectors
- Patchcords with IP68 connector
- Supplied with shielded RJ45 plug
- Single or double end terminated
- Standard lengths: 2m, 3m & 5m
- S-FTP cable construction
- PUR jacket cable
- Wiring configuration to 568-B
- Exceeds EIA/TIA Cat 5e



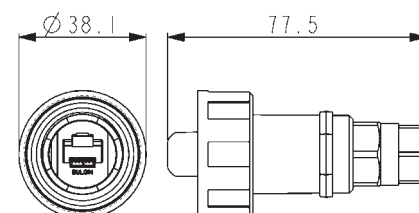
Part no.	Type	Length	Description
PX0836/2M00	Wire end	2m	IP68 RJ45 Buccaneer to bare end
PX0836/3M00	Wire end	3m	IP68 RJ45 Buccaneer to bare end
PX0836/5M00	Wire end	5m	IP68 RJ45 Buccaneer to bare end
PX0837/2M00	Single ended	2m	IP68 RJ45 Buccaneer to Shielded RJ45
PX0837/3M00	Single ended	3m	IP68 RJ45 Buccaneer to Shielded RJ45
PX0837/5M00	Single ended	5m	IP68 RJ45 Buccaneer to Shielded RJ45
PX0838/2M00	Double ended	2m	IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0838/3M00	Double ended	3m	IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0838/5M00	Double ended	5m	IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer

Re wireable Flex Connector



PX0834

- Mates with all panel mounting connectors
- Supplied with shielded RJ45 plug
- Two versions:
for PUR jacket cable (Cat 5e)
for other cable sizes from
3.5 to 8mm dia.



Part no. Description

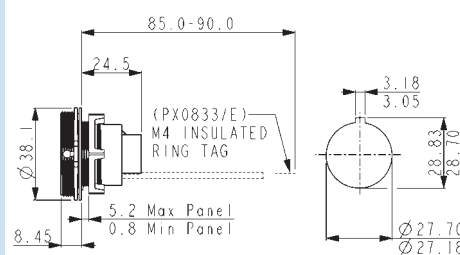
PX0834/A	Cable glands optimised for PUR jacket cable to maintain Cat 5e performance
PX0834/B	Suitable for use with cables from 3.5 to 8mm diameter

Panel Mounting Connector



PX0833

- Cat 5e shielded coupler
- Mates with PX0836, PX0837, PX0838 and PX0834 flex connectors
- Standard RJ45 patchcord can be plugged into rear
- Version with earth wire available
- Single hole fixing
- Complete with panel sealing gasket



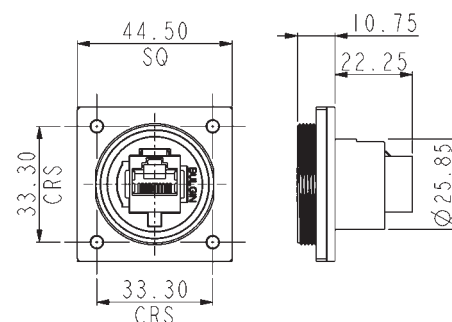
Part no.	Description	Fixing
PX0833	Cat 5e coupler	Front panel mounted
PX0833/E	Cat 5e coupler + earth wire	Front panel mounted

Flanged Mounting Connector



PX0870

- Cat 5e shielded coupler
- Mates with PX0836, PX0837, PX0838 and PX0834 flex connectors
- Standard RJ45 patchcord can be plugged into rear
- Version with earth wire available
- Flange fixing
- Complete with panel sealing gasket & screw sealing washers



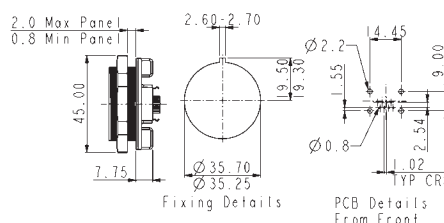
Part no.	Description	Fixing
PX0870	Cat 5e coupler	Flange mounting
PX0870/E	Cat 5e coupler + earth wire	Flange mounting

PCB Mounting Connector



PX0839/PC

- Cat 5e shielded RJ45 interface
- Rear of panel mounted
- Mates with PX0836, PX0837, PX0838 and PX0834 flex connectors
- For direct vertical mounting to PCB, straight pins
- Complete with panel sealing PX0839/PC gasket



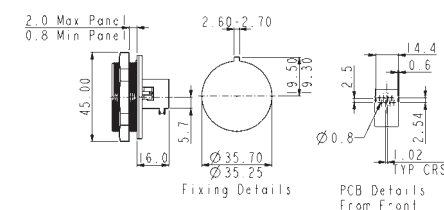
Part no.	Description	Fixing
PX0839/PC	Cat 5e connector - PC	Rear panel mounted

PCB Mounting Connector

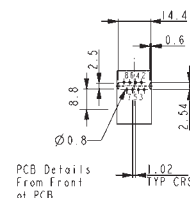


PX0839/90

- Cat 5e shielded RJ45 interface
- Rear of panel mounted
- Mates with PX0836, PX0837, PX0838 and PX0834 flex connectors
- For direct horizontal mounting to PCB, 90° pins
- Complete with panel sealing PX0839/90 gasket



Part no.	Description	Fixing
PX0839/90	Cat 5e connector - PC	Rear panel mounted

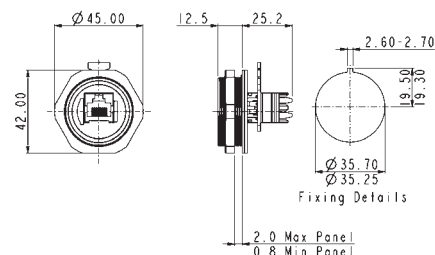


Panel Mounting Connector



PX0839/IDC

- Cat 5e shielded RJ45 interface
- Rear of panel mounted
- Mates with PX0836, PX0837, PX0838 and PX0834 flex connectors
- Two IDC blocks for discrete termination
- Complete with panel sealing



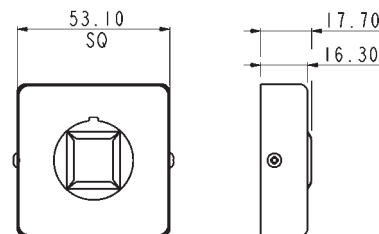
Part no.	Description	Fixing
PX0839/IDC	Cat 5e coupler	Rear panel mounted

Shield Back Shell Accessory



PX0888

- Maintains RJ45 coupler screening directly to panel
- Shielding can is fixed to rear of panel mount connector
- For use on PX0833



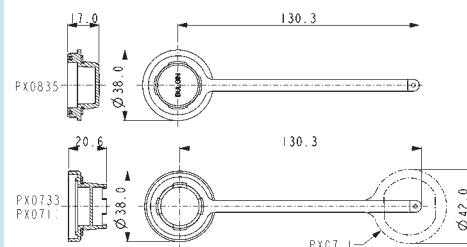
Part no.	Description
PX0888	Shielding backshell accessory

Accessories



Sealing Caps

- Sealing caps to maintain IP68 rating when connectors are not in use
- Replacement shielded RJ45s
- Hand crimp tool for shielded RJ45
- Patch cord cable available in 50m reels



Part no.	Description
PX0835	Sealing Cap for flex connectors (PX0834, PX0836-838)
PX0733	Sealing Cap for panel mounting connector (PX0833, PX0870)
PX0711	Sealing Cap for rear panel mounting connector (PX0839)
14151	Hand crimp tooling + die set
14199	PUR Jacket Cable - 50m reel
14150	Replacement shielded RJ45

Connectors

Mechanical	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks)
Operating Temperature	-20°C to +70°C
Materials - Overmoulded	
Overmould material	PVC (black)
Flammability rating	UL94V-0
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Materials - Re-wireable and Panel Connectors

Connector body & locking ring	Polyester
Panel connector	Nylon 6
Flammability rating	UL94V-0
'O' rings	Silicone
Panel Gasket - round	Silicone
Panel Gasket - flange	Neoprene
RoHS	Compliant

Stranded S-FTP Patch cord cable - PUR Jacket

Polyurethane (PUR) jacket cable with internal construction exceeding Cat 5e performance levels. The PUR jacket has excellent abrasion, chemical and ozone resistance, low smoke, low halogen flame retardant construction suitable for internal and external industrial environments.

Cable

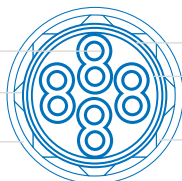
Conductors	24AWG (7/0.2mm) bare copper
Insulation	HD-PE
Pair	2 of the above cores twisted
Core	4 of the above cores
Tape	1 lap mylar tape
Screen	1 layer mylar and aluminium tape, 0.12mm
Sheath	tinned copper braid
Op Temperature	PUR Jacket Black
Min. bend radius	-25°C to +85°C
Min. bend radius	10 x o/d (installation)
Diameter	6 x o/d (installed) 6.1mm nominal

Electrical @ 20°C

Characteristic	
Impedance	100 Ω $\pm$ 15 Ω @ 100MHz
Capacitance	330pF/km
Conductor Loop resistance	29/ Ω 100m maximum
Skew	45 nsec/100m @ 100MHz
TIA/EIA Rating	Cat 5e

Cable construction - PX0836, PX0837, PX0838 and 14199

24 AWG 7/0.20mm conductor		Mylar Tape
Braiding 7/0.12mm		Insulation - HD - PE
Jacket 6.10mm dia		Aluminium/ PEPT tape
		Drain Wire



Polyurethane (PUR) Jacket

RJ45 Plug

Materials

Moulding	Polycarbonate
Flammability	UL94V-0
Contact material	Phosphor Bronze
Contact plating	50 micron gold
Operating Temperature	-40°C to +70°C
Mating cycles	1,000 cycles
RoHS	Compliant

Electrical

No. Conductors	8
Conductor types	24-28AWG, solid or multistranded
Current rating	1.5A
Voltage rating	30V ac, 42V dc
Contact resistance	10m Ω max.
Performance	Cat 5e

RJ45 Coupler

Materials

Coupler Shell	Copper Alloy
Coupler Plating	Nickel
Moulding	ABS
Flammability	UL94V-0
Contact material	Phosphor Bronze
Contact plating	50 micron gold
Operating Temperature	-40°C to +70°C
Mating cycles	1,000 cycles
RoHS	Compliant

Electrical

No. Conductors	8
Current rating	1.5A
Voltage rating	30V ac, 42V dc
Contact resistance	10mV max.
Performance	Cat 5e

RJ45 PCB Connector

Materials

Coupler Shell	Copper Alloy
Coupler Plating	Nickel
Moulding	ABS
Flammability	UL94V-0
Contact material	Phosphor Bronze
Contact plating	50 micron gold
PC Pins	Tin plated
Operating Temperature	-40°C to +70°C
Mating cycles	1,000 cycles
RoHS	Compliant

Electrical

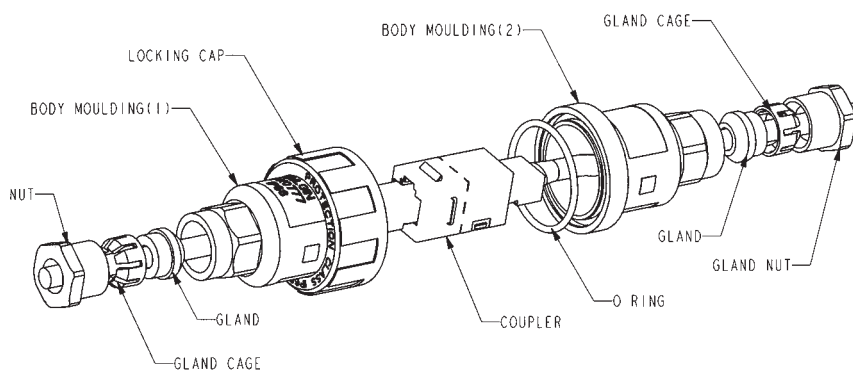
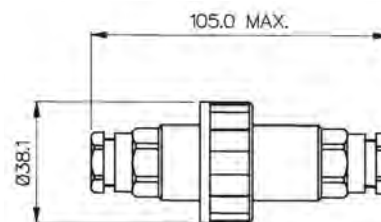
No. Conductors	8
Current rating	1.5A
Voltage rating	30V ac, 42V dc
Contact resistance	10m Ω max.
Performance	Cat 5e

Cable Joiner



PX0777

- IP68 Rating
- For Sealed In-Line RJ45 Connections
- Supplied Complete with Coupler
- Shielded (STP) & Unshielded (UTP) versions
- Cat5e Shielded Coupler also available
- Cable Range 3.5 - 8mm (with glands supplied)



Specifications	PX0777/UTP	PX0777/STP	PX0777/CAT5ESTP
Rating:	1.5A, 30V a.c., 42V d.c.	1.5A, 30V a.c., 42V d.c.	1.5A, 30V a.c., 42V d.c.
No. of Conductors:	8	8	8
Coupler Type:	Unshielded	Shielded	Shielded CAT5e performance
Cable Range:	3.5 - 8mm With glands supplied: 3.5 - 5mm (Blue) 5 - 7mm (Green) 6 - 8mm (Red)	3.5 - 8mm With glands supplied: 3.5 - 5mm (Blue) 5 - 7mm (Green) 6 - 8mm (Red)	3.5 - 8mm With glands supplied: 3.5 - 5mm (Blue) 5 - 7mm (Green) 6 - 8mm (Red)
Material:	Glass Filled Polyamide UL94V-0	Glass Filled Polyamide UL94V0	Glass Filled Polyamide UL94V0
Sealing:	IP68 to BSEN 60529:1992+A2:2013 (10m depth for 2 weeks)	IP68 to BSEN 60529:1992+A2:2013 (10m depth for 2 weeks)	IP68 to BSEN 60529:1992+A2:2013 (10m depth for 2 weeks)
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Operating Temp Range:	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C
Colour:	Black	Black	Black
RoHS	Compliant	Compliant	Compliant



- ⬢ IP68 rated
- ⬢ USB version 2.0 performance
- ⬢ Plug and play capability
- ⬢ Visual mating indication
- ⬢ Shielded system
- ⬢ Single and double ended cables
- ⬢ Screw coupling
- ⬢ PCB versions
- ⬢ Dust and waterproof sealing when mated
- ⬢ Low and high speed bus connection, 1.5Mbps to 480Mbps
- ⬢ Hot pluggable, standard 4 pole interface
- ⬢ Alignment indicator reduces risk of damage during mating
- ⬢ High noise immunity and EMI protection
- ⬢ Suitable for PC and peripheral configuration
- ⬢ Secure, proven locking system
- ⬢ Direct mounting or via adaptor leads
- ⬢ EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Sealed USB Cables - Single Ended

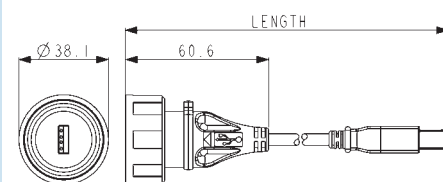


PX0840/A

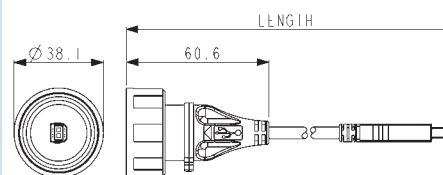
PX0840/B

Single ended sealed cable assembly

- IP68 'A' type USB connector to standard 'B' type USB connector, mates with all panel mount connectors
- IP68 'B' type USB connector to standard 'A' type USB connector, mates with all panel mount connectors
- Available in 2m, 3m and 5m lengths



PX0840/A/xMxx



PX0840/B/xMxx

Part no.	Length	Description
PX0840/A/2M00	2m	IP68 A type USB to standard B type USB
PX0840/A/3M00	3m	IP68 A type USB to standard B type USB
PX0840/A/5M00	5m	IP68 A type USB to standard B type USB
PX0840/B/2M00	2m	IP68 B type USB to standard A type USB
PX0840/B/3M00	3m	IP68 B type USB to standard A type USB
PX0840/B/5M00	5m	IP68 B type USB to standard A type USB

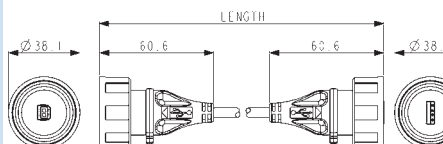
Sealed USB Cables Double Ended



PX0841/AB

Double ended sealed cable assembly

- IP68 'A' type USB connector to
- IP68 'B' type USB connector
- Mates with all panel mount connectors
- Available in 2m, 3m and 5m lengths



PX0841/AB/xMxx

Part no.	Length	Description
PX0841/AB/2M00	2m	IP68 A type USB to IP68 B type USB
PX0841/AB/3M00	3m	IP68 A type USB to IP68 B type USB
PX0841/AB/5M00	5m	IP68 A type USB to IP68 B type USB

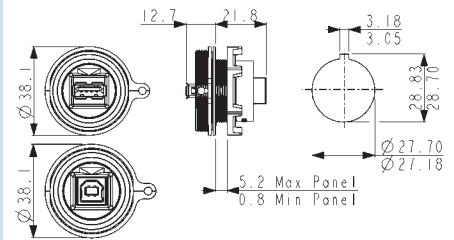
Front Panel Mounting Connector



PX0842/A

PX0842/B

- PX0842/A - USB 'A' type IP68 connector
- PX0842/B - USB 'B' type IP68 connector
- Opposite connector to rear of panel
- Mates with PX0840 and PX0841 cable connectors



Part no.

Description

PX0842/A
PX0842/B

IP68 A type USB, front panel mounted. Sealed A type at front of panel, standard B type at rear
IP68 B type USB, front panel mounted. Sealed B type at front of panel, standard A type at rear.

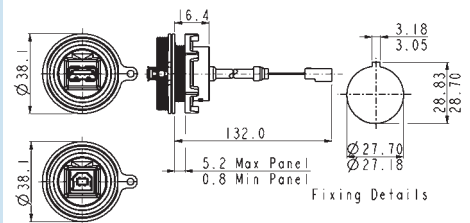
Front Panel Mounting Connector



PX0843/A

PX0843/B

- PX0843/A - USB 'A' type IP68 connector
- PX0843/B - USB 'B' type IP68 connector
- Leaded with 5 way crimp connector
- Mates with PX0840 and PX0841 cable connectors



Part no.

Description

PX0843/A
PX0843/B
PX0460/A
PX0460/B

IP68 A type USB, front panel mounted. Sealed A type at front of panel, 5 way crimp connector at rear.
IP68 B type USB, front panel mounted. Sealed B type at front of panel, 5 way crimp connector at rear.
As PX0843/A with exposed braid for use with PX0465 screening can
As PX0843/B with exposed braid for use with PX0465 screening can

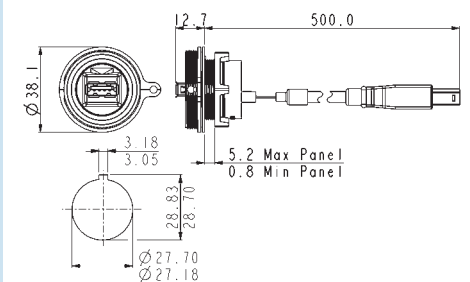
Front Panel Mounting Connector



PX0844/A

PX0844/B

- IP68 Sealed through panel
- PX0844/A - USB 'A' type IP68 connector
- PX0844/B - USB 'B' type IP68 connector
- Standard USB interface plug options to rear of panel
- 500mm standard cable length, other lengths available
- Mates with PX0840 and PX0841 cable connectors



Part no.

Description

PX0844/A/0M50/A
PX0844/A/0M50/B
PX0844/B/0M50/A
PX0844/B/0M50/B

IP68 A type USB, sealed through panel, Sealed 'A' type at front of panel, standard 'A' type at rear
IP68 A type USB, sealed through panel, Sealed 'A' type at front of panel, standard 'B' type at rear
IP68 B type USB, sealed through panel, Sealed 'B' type at front of panel, standard 'B' type at rear
IP68 B type USB, sealed through panel, Sealed 'B' type at front of panel, standard 'B' type at rear

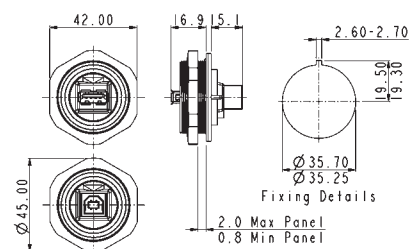
Rear Panel Mounting Connector



PX0848/A

PX0848/B

- PX0848/A - USB 'A' type IP68 connector
- PX0848/B - USB 'B' type IP68 connector
- Opposite connector to rear of panel
- Mates with PX0840 and PX0841 cable connectors



Part no.

Description

PX0848/A
PX0848/B

IP68 A type USB, rear panel mounted. Sealed A type at front of panel, standard B type at rear.
IP68 B type USB, rear panel mounted. Sealed B type at front of panel, standard A type at rear.

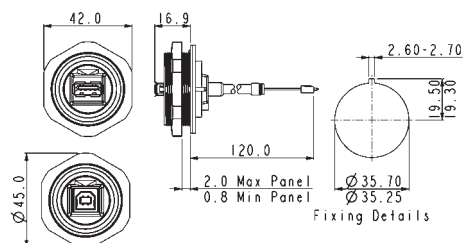
Rear Panel Mounting Connector



PX0849/A

PX0849/B

- PX0849/A - USB 'A' type IP68 connector
- PX0849/B - USB 'B' type IP68 connector
- Leaded with 5 way header
- Mates with PX0840 and PX0841 cable connectors



Part no.

Description

PX0849/A
PX0849/B

IP68 A type USB, rear panel mounted. Sealed A type at front of panel, 5 way header at rear.
IP68 B type USB, rear panel mounted. Sealed B type at front of panel, 5 way header at rear.

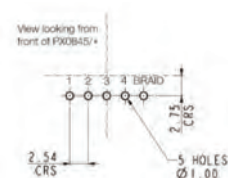
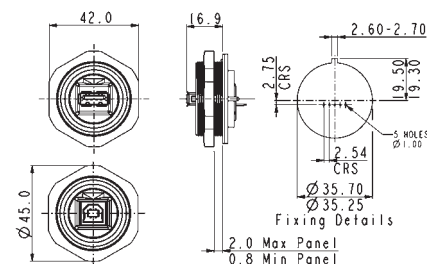
PCB Panel Mounting Connector- PCB Direct Mount



PX0845/A

PX0845/B

- PX0845/A - USB 'A' type IP68 connector
- PX0845/B - USB 'B' type IP68 connector
- PCB contacts at rear
- Direct PCB mount
- Mates with PX0840 and PX0841 cable connectors



Part no.

Description

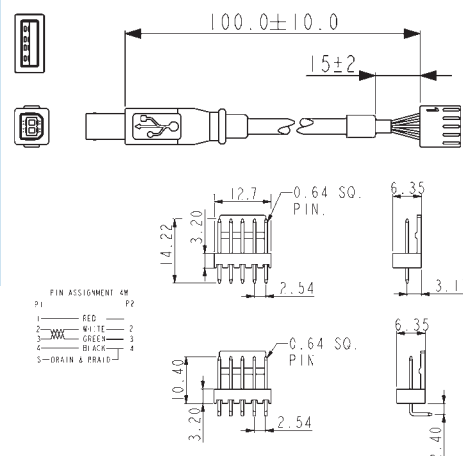
PX0845/A
PX0845/B

IP68 A type USB, rear panel mounted. Sealed A type at front of panel, direct mount PCB contacts at rear.
IP68 B type USB, rear panel mounted. Sealed B type at front of panel, direct mount PCB contacts at rear.

PCB Adaptor Leads



- Standard A and B type USB connectors to 5 way crimp adaptor leads
- 5 way headers, 2.54mm pitch, horizontal or vertical mounting



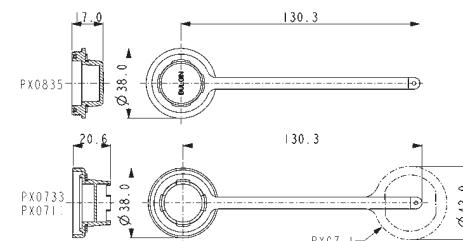
Part no. Description

14193	USB 'A' type to 5 way crimp connector
14194	USB 'B' type to 5 way crimp connector
14191	5 way PCB header straight
14192	5 way PCB header right angle

Accessories



- Sealing caps to maintain IP68 rating when connectors are not in use
- PX0835 for cable connectors PX0840 & PX0841
- PX0733 for front panel mount connectors PX0842, PX0843 & PX0844
- PX0711 for rear panel mount connectors PX0848, PX0849 & PX0845



Part no. Description

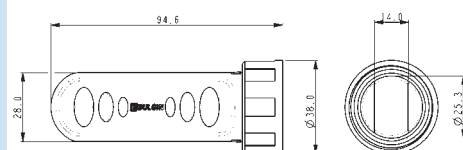
PX0835	Sealing Cap for cable connectors (PX0840, PX0841)
PX0733	Sealing Cap for front panel mounting connector (PX0842, PX0843)
PX0711	Sealing Cap for rear panel mounting connector (PX0848, PX0849, PX0845)

USB Flash Drive Cover



PX0852

- For use with USB Flash Drives
- Maintains IP68 rating when mated with panel connector
- For use with 'A' type connectors: PX0842, PX0843, PX0845, PX0848 & PX0849
- Internal accommodation 17.5 x 14.0 x 83mm approx.

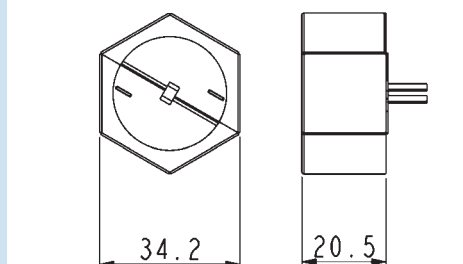


Screening Can



PX0464

- Maintains cable screening directly to panel
- Screening can clips around the panel fixing nut
- For use on PX0460/A and PX0460/B



Cables & connectors

Mechanical

Sealing	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks)
Operating temperature	0°C to +70°C
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Electrical

No. of poles	4
Current rating	1A
Voltage rating	30Vac (RMS)
Contact resistance	30m Ω max.
Performance	USB version 2.0

Materials - Overmoulded

Overmould material	PVC (black)
Flammability rating	UL94V-0

Materials - Re-wireable and Panel Connectors

Shell material	Steel
Shell plating	Nickel
Contact material	Copper Alloy
Contact plating	30 micro inch Gold
Connector body & locking ring	Glass Loaded Polyester
Panel connector	Nylon 6
Flammability rating	UL94V-0
'O' rings	Silicone
Panel Gasket - round	Silicone
Panel Gasket - square	Neoprene
Mating cycles	1,000
RoHS	Compliant

Materials - cable

Cable Jacket	PVC (black)
Screen	Tinned copper braid
Flammability	UL94V-0
RoHS	Compliant

Length:	Dia	Conductors Signal	Conductors Power
2m	4.8mm	2 x 28AWG	2 x 24AWG
3m	5.0mm	2 x 28AWG	2 x 22AWG
5m	5.2mm	2 x 25AWG	2 x 20AWG

PCB adaptor leads

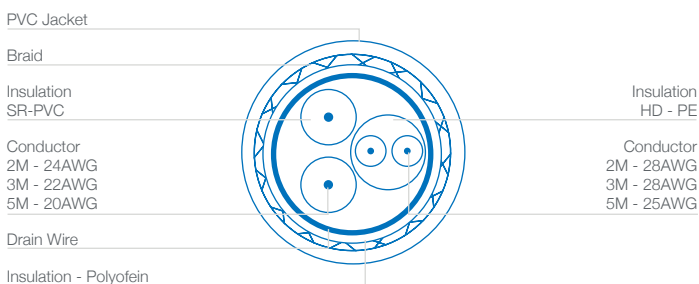
Electrical

No. of conductors	4
Current rating	1A
Voltage rating	30Vac (RMS)
Contact resistance	<10m Ω max.
PCB pitch	2.54mm

Materials

Moulding	Polycarbonate
Flammability	UL94V-0
Contact material	Copper Alloy
Contact plating	30 micro inch Gold
Wire insulation	PVC (black)
Flammability	UL94-V0
Conductors	4 x 28AWG
Operating temperature	0°C to +70°C
Mating cycles	1,000
RoHS	Compliant

Cable construction - PX0840, PX0841



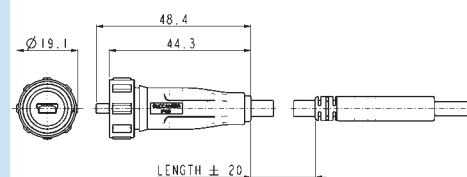


- ⬡ IP68 rated
- ⬡ USB V2.0 performance
- ⬡ Plug and play capability
- ⬡ Shielded system
- ⬡ Overmoulded cables
- ⬡ Screw coupling
- ⬡ PCB versions
- ⬡ EN60068-2-52 Test Kb Salt Mist (Cyclic)
Marine Severity Level 1
- ⬡ Dust and waterproof to EN60529
- ⬡ Data rates up to 480Mbps
- ⬡ Hot pluggable, standard 4 pole interface
- ⬡ High noise immunity
- ⬡ Tamperproof construction
- ⬡ Secure, proven locking system
- ⬡ Direct mounting or via adaptor leads



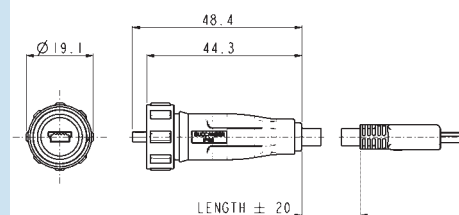
PX0441

- Standard 'A' type to sealed Mini 'B' type
- Fully overmoulded construction
- Available in 2, 3 & 4.5m lengths
- Mates with PX0443, PX0446, PX0447, PX0456, PX0457 & PX0458



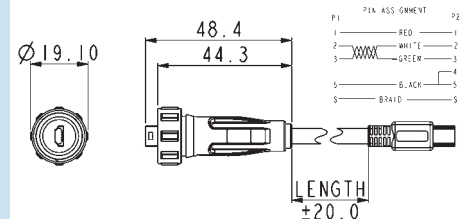
PX0442

- Mini 'A' type to sealed mini 'B' type
- Fully overmoulded construction
- Available in 2, 3 & 4.5m lengths
- Mates with PX0443, PX0446, PX0447, PX0456, PX0457 & PX0458



PX0444

- Mini 'B' type to Sealed Mini 'A' type
- Fully overmoulded construction
- Available in 2, 3 & 4.5m lengths
- Mates with PX0456, PX0457 & PX0458



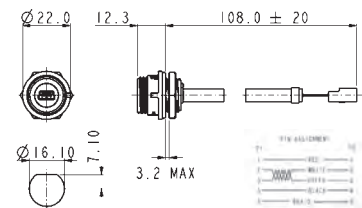
Part No.	Length	Description
PX0441/2M00	2.0m	IP68 mini 'B' to Std 'A' type USB
PX0441/3M00	3.0m	IP68 mini 'B' to Std 'A' type USB
PX0441/4M50	4.5m	IP68 mini 'B' to Std 'A' type USB
PX0442/2M00	2.0m	IP68 mini 'B' to Mini 'A' type USB
PX0442/3M00	3.0m	IP68 mini 'B' to Mini 'A' type USB
PX0442/4M50	4.5m	IP68 mini 'B' to Mini 'A' type USB
PX0444/2M00	2.0m	IP68 mini 'A' to Mini 'B' type USB
PX0444/3M00	3.0m	IP68 mini 'A' to Mini 'B' type USB
PX0444/4M50	4.5m	IP68 mini 'A' to Mini 'B' type USB

Front Panel Mounting Connector



PX0443

- Mini 'B' type
- Leaded with 5 way crimp, for use with PC header
- Mates with PX0441 & PX0442 type cables



Part no. **Description**

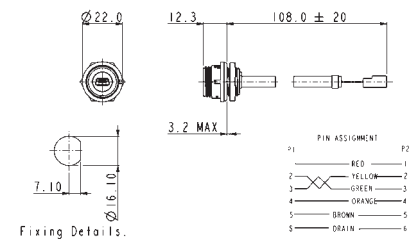
PX0443 IP68 B type Mini USB, front panel mounted. 5 way crimp connector at rear.
PX0459 As PX0443 with exposed braid for use with PX0464 screening can

Front Panel Mounting Connector



PX0456

- Mini 'AB' type
- Leaded with 6 way crimp, for use with PC header
- Mates with PX0441, PX0442 & PX0444 type cables



Part no. **Description**

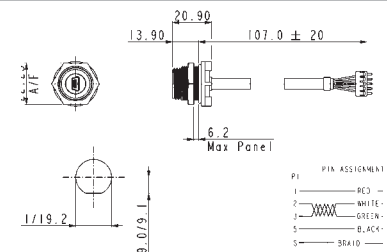
PX0456 IP68 AB type Mini USB, front panel mounted. 6 way crimp connector at rear.

Rear Panel Mounting Connector



PX0446

- Mini 'B' type
- Leaded with 5 way header
- Mates with PX0441 & PX0442 type cables

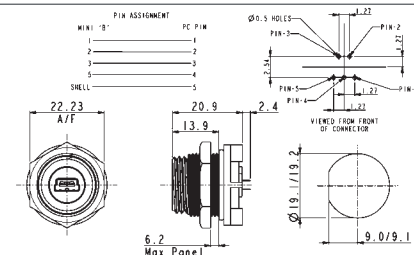


Rear Panel Mounting Connector



PX0447

- Mini 'B' type
- With pins for direct PC mounting
- Mates with PX0441 & PX0442 type cables



Part no. **Description**

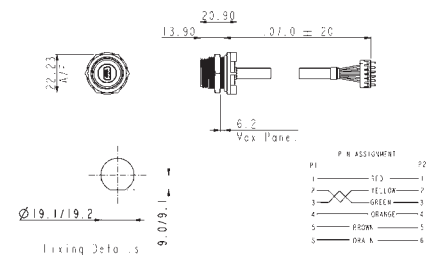
PX0446 IP68 B type Mini USB, rear panel mounted. 5 way header connector at rear.
PX0447 IP68 B type Mini USB, rear panel mounted. PC terminals at rear.

Rear Panel Mounting Connector



PX0457

- Mini 'AB' type
- Leaded with 6 way header
- Mates with PX0441, PX0442 & PX0444 type cables

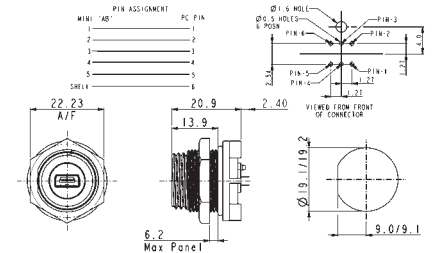


Rear Panel Mounting Connector



PX0458

- Mini 'AB' type
- With pins for direct PC mounting
- Mates with PX0441, PX0442 & PX0444 type cables



Part no.

Description

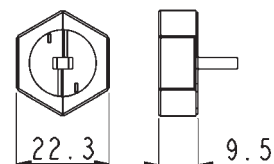
PX0457	IP68 AB type Mini USB, rear panel mounted. 6 way header connector at rear.
PX0458	IP68 AB type Mini USB, rear panel mounted. PC terminals at rear.

Screening Can



PX0464

- Maintains cable screening directly to panel
- Shielding can clips around the panel fixing nut
- For use on PX0459



Accessories



- Sealing caps to maintain IP rating when connectors are not in use
- PCB headers for use with PX0443 & PX0456

Part no.

Description

PX0485	Sealing cap for use with PX0441, PX0442 & PX0444
PX0480	Sealing cap for use with PX0443 & PX0456
PX0484	Sealing cap for use with PX0446, PX0447, PX0457 & PX0458
14191	5 way straight header
14192	5 way right angle header
14563	6 way straight header
14564	6 way right angle header

Cables & connectors

Mechanical

Sealing	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks)
Operating temperature	0°C to +70°C
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Electrical

No. of poles	4 and 5
Current rating	1A
Voltage rating	30Vac, 42Vdc
Contact resistance	50m Ω max.
Performance	USB version 2.0

Materials - Overmoulded

Overmould material	PVC (black)
Flammability rating	UL94V-0

Materials - Re-wireable and Panel Connectors

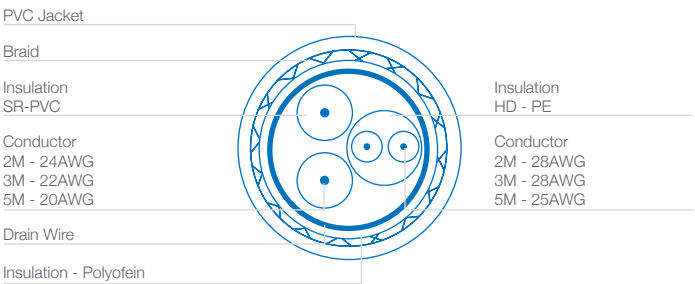
Shell material	Steel
Shell plating	Nickel
Contact material	Copper Alloy
Contact plating	50 micro inch Gold
Connector body & locking ring	Polyester
Panel connector	Nylon 6
Flammability rating	UL94V-0
'O' rings	Nitrile
Mating cycles	5,000
RoHS	Compliant

Materials - cable

Cable Jacket	PVC (black)
Screen	Tinned copper braid
Flammability	UL94V-0
RoHS	Compliant

Length:	Dia	Conductors Signal	Conductors Power
2m	4.8mm	2 x 28AWG	2 x 24AWG
3m	5.0mm	2 x 28AWG	2 x 22AWG
5m	5.2mm	2 x 25AWG	2 x 20AWG

Cable construction - PX0441, PX0442, PX0444





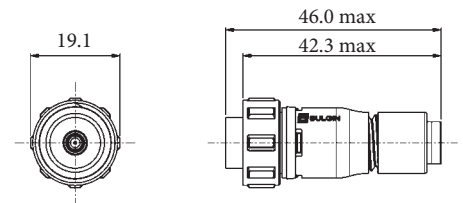
- ⬡ Sealed to IP68 when mated
- ⬡ 50Ω Impedance SMB connector
- ⬡ Frequency range 0-4GHz
- ⬡ Contact resistance
 - centre - 6mΩ max.
 - outer - 2.5mΩ max.
- ⬡ Gold plated contacts
- ⬡ Diameter over coupling ring 19mm
- ⬡ Body moulding, Nylon UL94-V0 rated
- ⬡ Two versions of Flex Connector
 - re-wireable
 - pre-wired - lengths 1m, 3m & 5m
- ⬡ Panel connector
 - pre-wired - lengths 0.5m, 1m & 1.5m
- ⬡ Cable accommodation (flex re-wireable), RG-174
- ⬡ Cable type (pre-wired connectors), RG-174

Re- Wireable Flex Connector



PX0415/1

- Mates with Panel connector (PX0414)
- Re-wireable connector
- For RG-174 cable
- Supplied with SMB plug



Part no.

Description

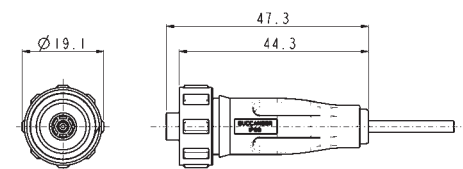
PX0415/1 Re-wireable connector with SMB Plug - for RG-174 cable

Pre- Wireable Flex Connector



PX0416/xMxx

- Mates with Panel connector (PX0414)
- Pre-wired
- Overmoulded construction
- Supplied with SMB plug terminated with RG-174 cable
- 1m, 3m & 5m cable lengths



Part no.

Description

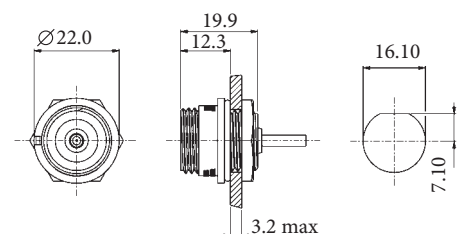
PX0416/1M00 Overmoulded connector with SMB plug - cable length 1m
 PX0416/3M00 Overmoulded connector with SMB plug - cable length 3m
 PX0416/5M00 Overmoulded connector with SMB plug - cable length 5m

Panel Mounting Connector



PX0414/xMxx

- Mates with Flex connectors (PX0415, PX0416)
- Single hole fixing
- Supplied with SMB jack terminated with RG-174 cable
- U.FL cable version also available



Part no.

Description

PX0414/0M50 Panel connector with SMB jack - cable length 0.5m
 PX0414/1M00 Panel connector with SMB jack - cable length 1m
 PX0414/1M50 Panel connector with SMB jack - cable length 1.5m

Sealing Cap and Accessories

- Sealing caps maintain IP rating when connectors are not in use



PX0480

PX0481

PX0485

Part no.

Description

PX0480 Sealing cap for PX0414 chassis connector
 PX0481 Sealing cap for PX0415 re-wireable flex connectors
 PX0485 Sealing cap for PX0416 overmoulded flex connector
 14319 Hand crimp tool for SMB

Electrical

Impedance:	50Ω
Frequency Range:	0-4GHz
Contact Resistance:	
Centre:	6mΩ (max.)
Outer:	2.5mΩ (max.)
Insulator Resistance:	1000MΩ (max.)

Mechanical:

Sealing:	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks)
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Cable Acceptance:	RG-174
Insertion/Withdrawal Force:	
Insertion Force:	36N
Withdrawal Force:	36N
Cable Retention Force:	18N
Mating Cycles:	500
Operating Temperature:	-20°C to +80°C

Material:

PX0415/1 and PX0414	
Body Mouldings:	Polyamide
Flammability Rating:	UL94V-0
UV Resistance:	To EN 50021:1999
PX0416	
Body Mouldings:	PVC (black)
Flammability Rating:	UL94V-0
O Rings:	Nitrile
Panel Sealing O Ring:	Nitrile
SMB Connector	
Body:	Brass to QQ-B-626, Gold Plated
Centre Contact:	
Plug:	Brass to QQ-B-626, Gold Plated
Jack:	Beryllium Copper to QQ-B-530, Gold Plated
Insulator:	Teflon
Crimp Ferrules:	Annealed Copper
RoHS	Compliant



SMB Antenna

- ⬡ IP68 Sealing
- ⬡ SMB 50 ohm interface
- ⬡ For use with SMB Buccaneer
- ⬡ Three frequency bands:
440 to 470MHz
900/1800/1900MHz
2.4 to 2.5GHz
- ⬡ Maintains sealing integrity of equipment

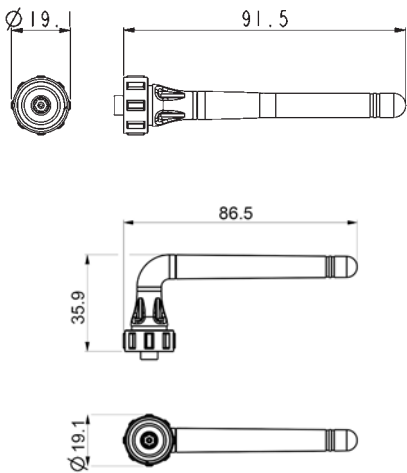
Bluetooth Cable Replacement

- ⬡ IP68 Sealing
- ⬡ RS485/RS232 serial interfaces
- ⬡ Serial data to Bluetooth
- ⬡ Wireless transparent data connection
- ⬡ Up to 100m range (class 1)
- ⬡ Maintains sealing integrity of equipment

SMB Antenna



- Dust & waterproof to IP68
EN60529 when mated
- Secure screw thread locking
- Built-in sealed antenna
- Mates with SMB Buccaneer
PX0414
- Frequency bands:
2.4 to 2.5GHz
440 to 470MHz
900/1800/1900MHz



Part no.	Description
PX0407	IP68 rated, Buccaneer Antenna, 2.4 to 2.5GHz frequency band
PX0408	IP68 rated, Buccaneer Antenna, 440 to 470MHz frequency band
PX0409	IP68 rated, Buccaneer Antenna, 900/1800/1900MHz frequency band
PX0407/90	IP68 rated, Buccaneer Antenna, 2.4 to 2.5GHz frequency band
PX0408/90	IP68 rated, Buccaneer Antenna, 440 to 470MHz frequency band
PX0409/90	IP68 rated, Buccaneer Antenna, 900/1800/1900MHz frequency band

Specification

Electrical

Frequency	
PX0407	2.4 to 2.5GHz
PX0408	440 to 470MHz
PX0409	850-900/1800/1900MHz
Configuration	
PX0407	¼ Wavelength
PX0408	½ Wavelength
PX0409	½ Wavelength
Radiation	Omnidirectional
Polarization	Vertical
Impedance	50Ω nominal
VSWR	<2

Mechanical

Sealing	IP68, EN60529:1992+A2:2013, when mated (10m depth for 2 weeks)
Operating Temperature:	-20°C to +65°C
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Material

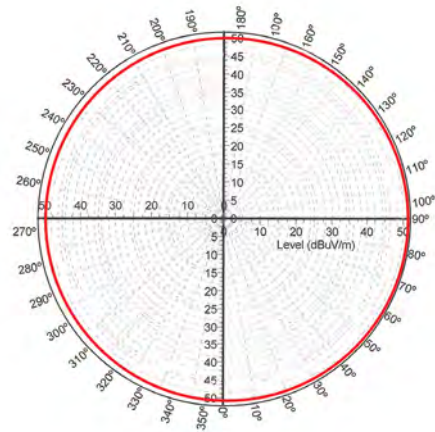
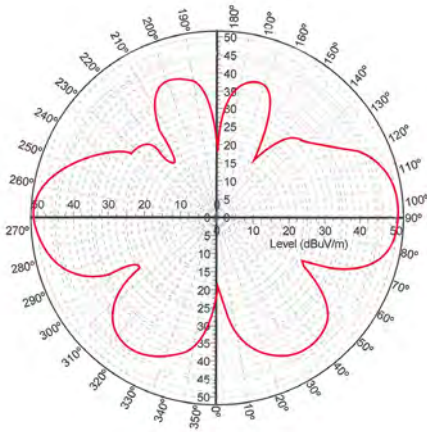
Body Mouldings	PVC
Flammability Rating	UL94V-0
UV Resistance	EN50021:1999
RoHS	Compliant

400 Series - Wireless Buccaneer

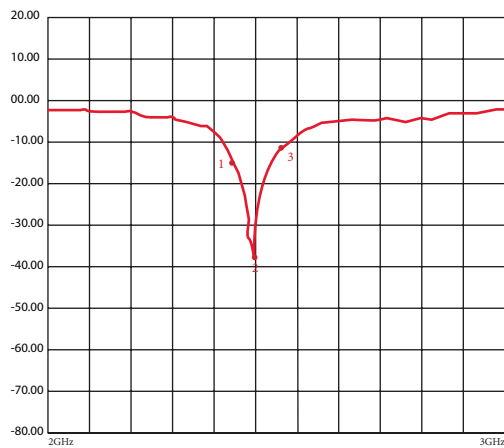
Polar/Antenna Plots



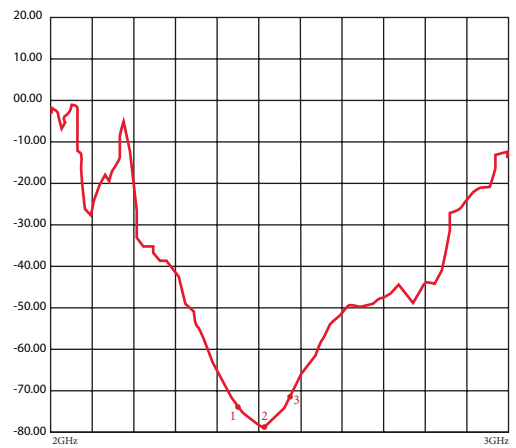
PX0407 Polar plots



PX0407 Radiation Pattern plots



- 1 -12.624 dB 2.40000 GHz
- 2 -34.951 dB 2.45000 GHz
- 3 -12.777 dB 2500.000 000 MHz



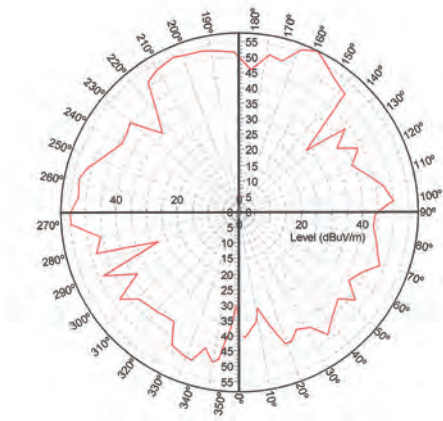
- 1 1.5659 dB 2.40000 GHz
- 2 1.6514 dB 2.45000 GHz
- 3 1.6032 dB 2500.000 000 MHz

400 Series - Wireless Buccaneer

Polar/Antenna Plots

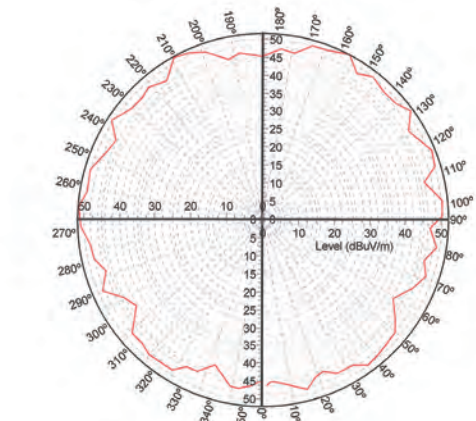


PX0408 Polar plots



Pattern Field

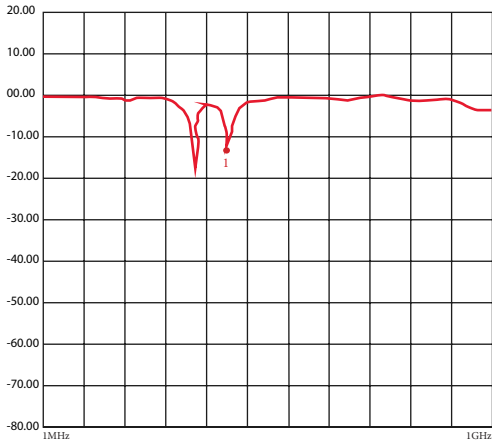
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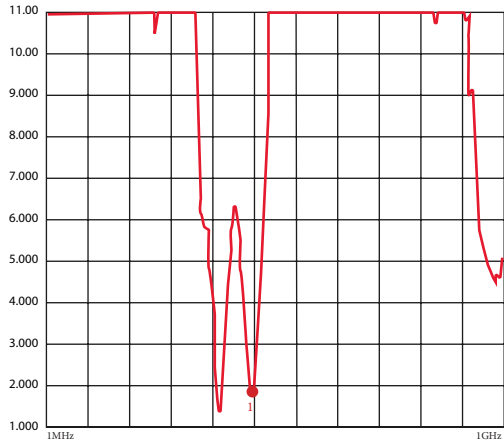
Pattern Field

H

PX0408 Radiation Pattern plots



1 450.00000 MHz -13.300 dB



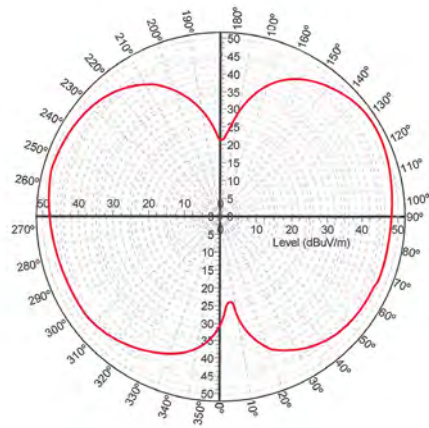
1 450.00000 MHz -13.300 dB

400 Series - Wireless Buccaneer

Polar/Antenna Plots

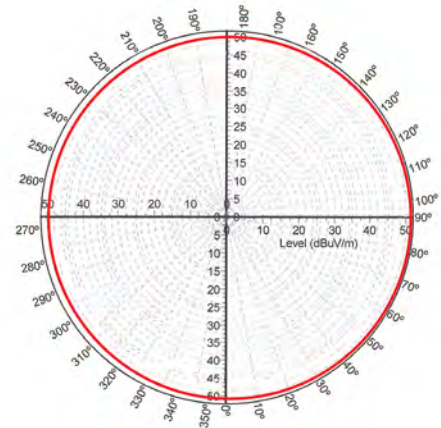


PX0409 / 900MHz Polar plots



Pattern Field

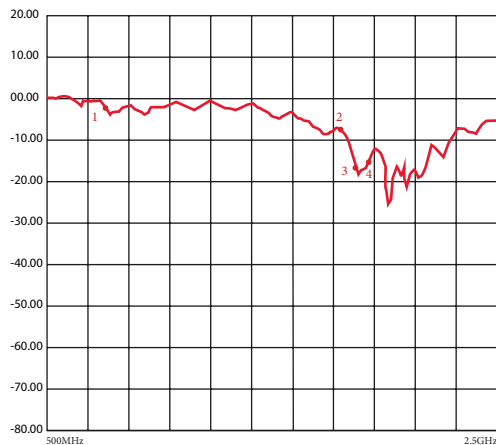
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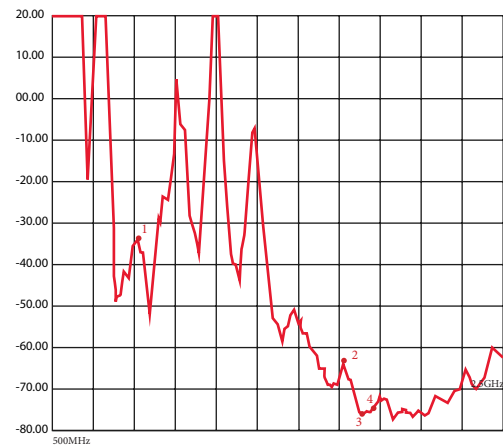
Pattern Field

H

PX0409 / 900MHz Radiation Pattern plots



1 900.00000 MHz -3.4307 dB
2 1.8000000 GHz -9.0130 dB
3 1.8800000 GHz -19.516 dB
4 1.9000000 GHz -20.297 dB



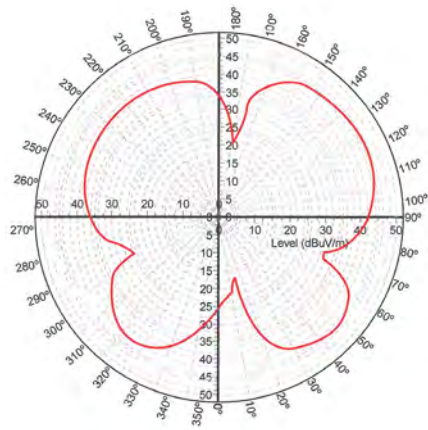
1 900.00000 MHz 5.1694 dB
2 1.8000000 GHz 2.2481 dB
3 1.8800000 GHz 1.2377 dB
4 1.9000000 GHz 1.2052 dB

400 Series - Wireless Buccaneer

Polar/Antenna Plots

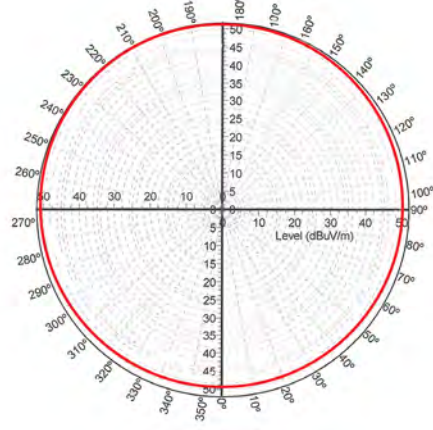


PX0409 / 1800MHz Polar plots



Pattern Field

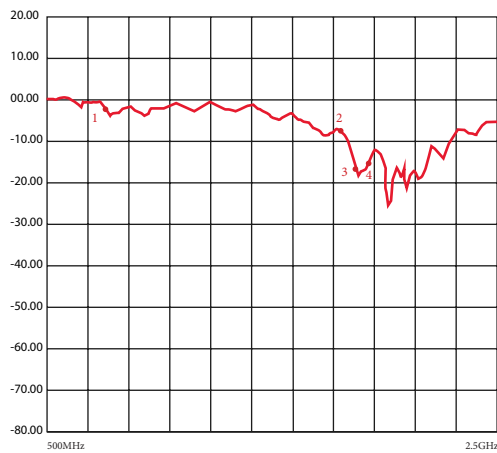
E



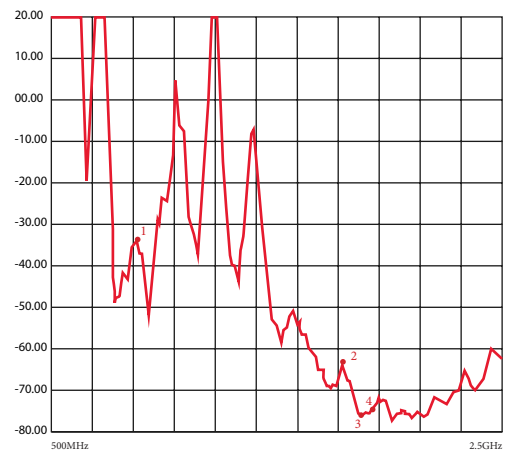
Pattern Field

H

PX0409 / 1800MHz Radiation Pattern plots



1 900.00000 MHz -3.4307 dB
2 1.8000000 GHz -9.0130 dB
3 1.8800000 GHz -19.516 dB
4 1.9000000 GHz -20.297 dB



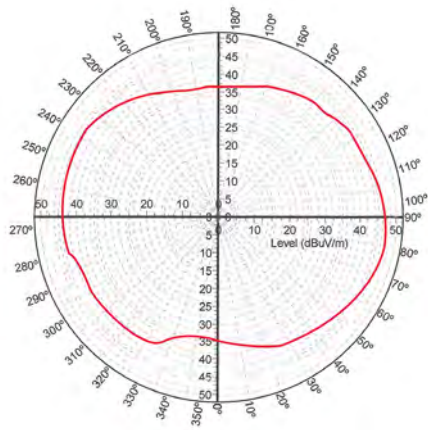
1 900.00000 MHz 5.1694 dB
2 1.8000000 GHz 2.2481 dB
3 1.8800000 GHz 1.2377 dB
4 1.9000000 GHz 1.2052 dB

400 Series - Wireless Buccaneer

Polar/Antenna Plots

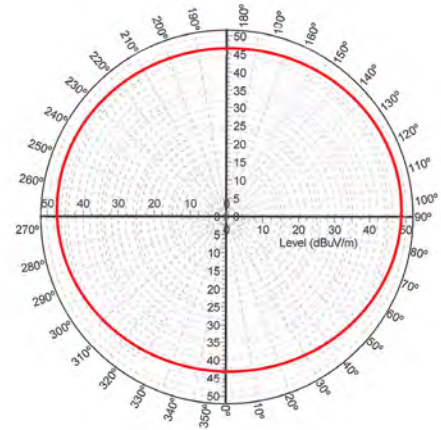


PX0409 / 1800MHz Polar plots



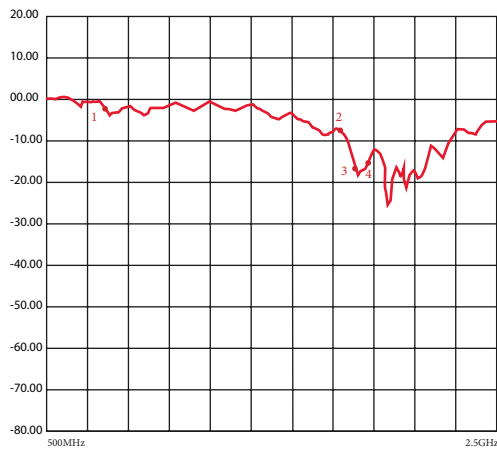
Pattern Field

E

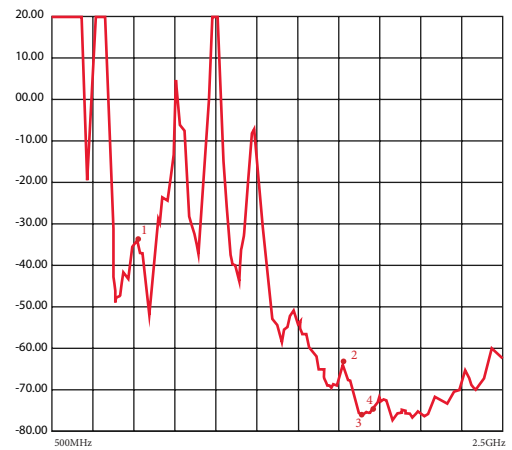


Pattern Field

H



1 900.00000 MHz -3.4307 dB
2 1.8000000 GHz -9.0130 dB
3 1.8800000 GHz -19.516 dB
4 1.9000000 GHz -20.297 dB



1 900.00000 MHz 5.1694 dB
2 1.8000000 GHz 2.2481 dB
3 1.8800000 GHz 1.2377 dB
4 1.9000000 GHz 1.2052 dB

6000 Series Buccaneer – [circular connectors](#) that combine the ease of use of a [push/pull coupling mechanism](#) with proven environmental sealing. Available with [metal](#) or [plastic](#) bodies, the range supports both data (USB and Ethernet), 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.

- [30° twist locking](#)
Tamperproof lock prevents accidental un-mating
- [IP66, IP68 and IP69K when mated](#)
Suitable for a wide range of dust and water borne environments
- [Independent sealing tests](#)
IP Ratings independently verified
- [USB version 2.0 performance](#)
Low and high speed bus connection, 1.5Mbps to 480Mbps
- [Plug and play capability](#)
Hot pluggable, standard 4 pole interface
- [Shielded system](#)
High noise immunity and EMI protection
- [Single and double ended cables](#)
Suitable for PC and peripheral configuration
- [Push-pull latching system*](#)
Secure, instant latching. Quick connector mating and release
- [Cat 5e compliant](#)
Data rate up to 100MHz
- [PUR jacket on cable](#)
Good chemical resistance, flame retardant
- [Cat 5e shielded coupler](#)
Maintains shielding
- [Visual mating indication](#)
Alignment indicator reduces risk of damage during mating
- [Earth lead version of panel adaptor on plastic connector](#)
Continuous screening of panel mount connector
- [Metal connector grounded to cable screen](#)
Continuous screening of panel mount connector
- [Sealed through panel Ethernet](#)
Prevent water ingress into equipment
- [EN60068-2-52 Test Kb Salt Mist \(Cyclic\)](#)
Marine Severity Level 1



Sealed USB Cables - Single Ended

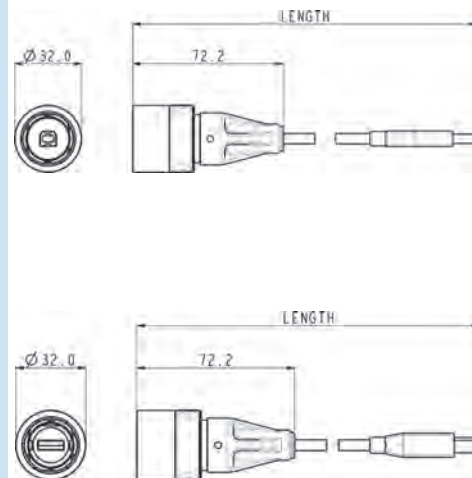


PXP6040/A



PXP6040/B

- Single ended sealed cable assembly
- Mates with all panel mounting connectors
- 30° twist locking
- IP rated 'A' type USB connector to standard 'B' type USB connector, mates with all panel mount connectors
- IP rated 'B' type USB connector to standard 'A' type USB connector, mates with all panel mount connectors
- Available in 2m, 3m and 5m lengths



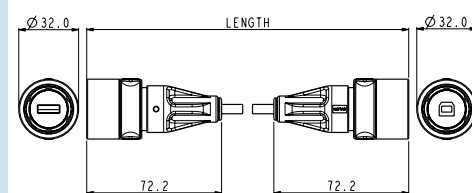
Part no	Length	Description
PXP6040/A/2M00	2m	IP rated A type USB to standard B type USB
PXP6040/A/3M00	3m	IP rated A type USB to standard B type USB
PXP6040/A/5M00	5m	IP rated A type USB to standard B type USB
PXP6040/B/2M00	2m	IP rated B type USB to standard A type USB
PXP6040/B/3M00	3m	IP rated B type USB to standard A type USB
PXP6040/B/5M00	5m	IP rated B type USB to standard A type USB

Sealed USB Cables - Double Ended



PXP6041/AB

- Double ended sealed cable assembly
- Mates with all panel mount connectors
- 30° twist locking
- IP rated 'A' type USB connector to 'B' type USB connector
- Available in 2m, 3m and 5m lengths



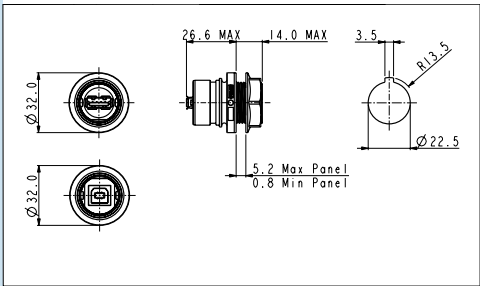
Part no	Length	Description
PXP6041/AB/2M00	2m	IP rated A type USB to standard B type USB
PXP6041/AB/3M00	3m	IP rated A type USB to standard B type USB
PXP6041/AB/5M00	5m	IP rated A type USB to standard B type USB

Front Panel Mounting Connector



PXP6042/B PXP6042/A

- PXP6042/A - USB 'A' type IP rated connector
- PXP6042/B - USB 'B' type IP rated connector
- Opposite USB type connector to rear of panel
- Mates with PXP6040 and PXP6041 cable connectors



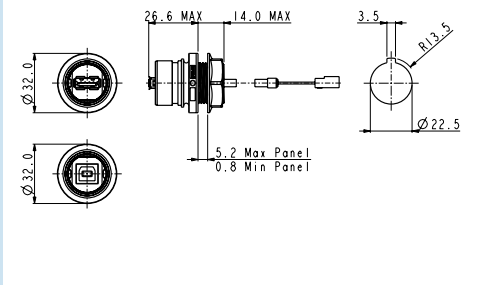
Part No.	Description
PXP6042/A	IP rated A type USB, front panel mounted. Sealed A type at front of panel, standard B type at rear.
PXP6042/B	IP rated B type USB, front panel mounted. Sealed B type at front of panel, standard A type at rear.

Front Panel Mounting Connector



PXP6043/B PXP6043/A

- PXP6043/A - USB 'A' type IP rated connector
- PXP6043/B - USB 'B' type IP rated connector
- Leaded with 5 way crimp connector
- Mates with PXP6040 and PXP6041 cable connectors



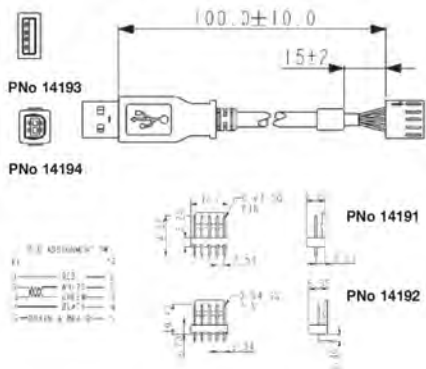
Part No.	Description
PXP6043/A	IP rated A type USB, front panel mounted. Sealed A type at front of panel, 5 way crimp connector at rear.
PXP6043/B	IP rated B type USB, front panel mounted. Sealed B type at front of panel, 5 way crimp connector at rear.

PCB Adaptor Leads



- Standard A and B type USB connectors to 5 way crimp adaptor leads
- 5 way headers, 2.54mm pitch, horizontal or vertical mounting

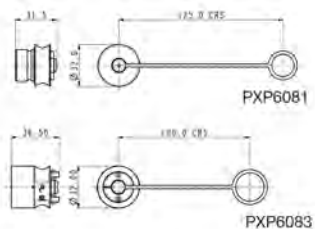
Part No.	Description
14193	USB 'A' type to 5 way crimp connector
14194	USB 'B' type to 5 way crimp connector
14191	5 way PCB header straight
14192	5 way PCB header right angle



Sealing Caps



- Sealing caps to maintain IP rating when connectors are not in use
- PXP6081 for cable connectors PXP6040 & PXP6041
- PXP6083 for front panel mount connectors PXP6042 & PXP6043, with 30° twist lock



Part No.	Description
PXP6081	Sealing Cap for Flex cable connectors (PXP6040, PXP6041)
PXP6083	Sealing Cap for front panel mounting connector (PXP6042, PXP6043)

PXP	/	6XXX	/	X	/	XXXX
Series Designation		Series / Body Style 040 = Single ended cable 041 = Double ended cable 042 = Panel with adaptor 043 = Panel with lead		Characteristics A = 'A' type sealed interface B = 'B' type sealed interface AB = 'A' & 'B' type sealed interface (for use with 6041 only)		Cable length 2M00 = 2 metre cable length (for use with 6040 and 6041 cables only) 3M00 = 3 metre cable length (for use with 6040 and 6041 cables only) 5M00 = 5 metre cable length (for use with 6040 and 6041 cables only) Blank for 6042 & 6043 panel bodies

Examples

PXP6040/A/2M00 = Cable assembly with sealed 'A' type connector to unsealed 'B' type connector, 2 metres long

PXP6042/A = Panel mounted adaptor with sealed 'A' type to unsealed 'B' type at rear

Cables & connectors

Mechanical

Sealing	IP69K, DIN40050-9 IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP66, EN60529:1992+A2:2013
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Operating temperature	0°C to +70°C

Electrical

No. of poles	4
Current rating	1A
Voltage rating	30Vac (RMS)
Contact resistance	30mΩ max.
Performance	USB version 2.0

Materials - Overmoulded

Overmould material	PVC (black)
Flammability rating	UL94V-0

Materials - Re-wireable and Panel Connectors

Plastic	PC/PBT
Metal	Machined Brass, Nickel Plated
Flammability rating	UL94V-0
'O' rings	Silicone
Panel Gasket - round	Silicone
Panel Gasket - flange	Silicone

Materials - cable

Cable Jacket	PVC (black)
Screen	Tinned copper braid
Flammability	UL94V-0
RoHS	Compliant

Length:	Dia	Conductors Signal	Conductors Power
2m	4.8mm	2 x 28AWG	2 x 24AWG
3m	5.0mm	2 x 28AWG	2 x 22AWG
5m	5.2mm	2 x 28AWG	2 x 20AWG

PCB adaptor leads

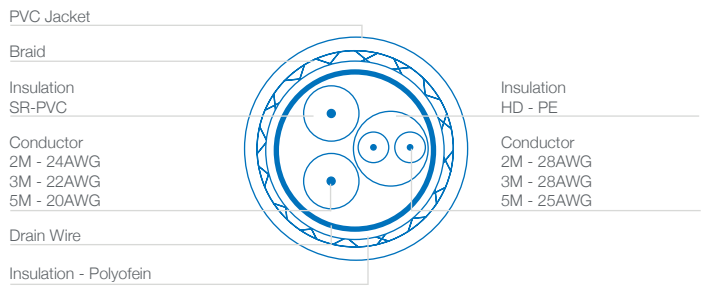
Electrical

No. of conductors	4
Current rating	1A
Voltage rating	30Vac (RMS)
Contact resistance	<10mΩ max.
PCB pitch	2.54mm

Materials

Moulding	Polycarbonate
Flammability	UL94V-0
Contact material	Copper Alloy
Contact plating	30 micro inch Gold
Wire insulation	PVC (black)
Flammability	UL94-V0
Conductors	4 x 28AWG
Operating temperature	0°C to +70°C
Mating cycles	1,000
RoHS	Compliant

Cable construction - PXP6040, PXP6041



BUCCANEER FOR DATA

6000 Series Ethernet Buccaneer

Thermo-plastic version

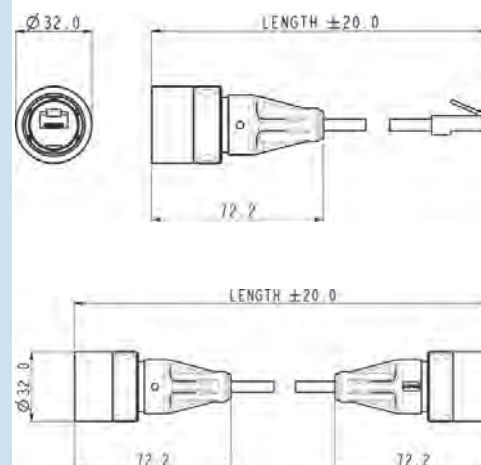


Patch Cord Flex Connector - Pur Jacket Cable



PXP6037

- Mates with PXP6033TP type panel mounting connectors
- 30° twist locking
- Overmoulded patchcords with IP rated connector
- Supplied with shielded RJ45 plug
- Single or double end terminated
- Standard lengths: 2m, 3m&5m
- S-FTP cable construction
- PUR jacket cable
- Wiring configuration to 568-B
- Exceeds EIA/TIA Cat 5e



Part no	Type	Length	Description
PXP6037/A/2M00	Single ended	2m	IP RJ Buccaneer to Shielded RJ45
PXP6037/A/3M00	Single ended	3m	IP RJ Buccaneer to Shielded RJ45
PXP6037/A/5M00	Single ended	5m	IP RJ Buccaneer to Shielded RJ45
PXP6038/B/2M00	Double ended	2m	IP RJ Buccaneer to IP68 RJ Buccaneer
PXP6038/B/3M00	Double ended	3m	IP RJ Buccaneer to IP68 RJ Buccaneer
PXP6038/B/5M00	Double ended	5m	IP RJ Buccaneer to IP68 RJ Buccaneer

Rewireable Flex Connector



PXP6034

- Mates with PXP6033TP type panel mounting connectors
- 30° twist locking
- Supplied with shielded RJ45 plug
- Two versions:
for PUR jacket cable (Cat 5e)
for other cable sizes from
4.0 to 10.0mm dia.



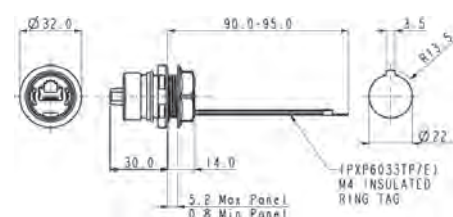
Part no	Description
PXP6034/A	Cable glands optimised for PUR jacket cable to maintain Cat 5e performance
PXP6034/B	Suitable for use with cables from 4.0 to 10.0mm diameter

Front Panel Mounting Connector



PXP6033TP

- Sealed through panel
- Cat 5e shielded coupler
- Mates with all plastic flex connectors
- Standard RJ45 patchcord can be plugged into rear
- Version with earth wire available
- Single hole fixing
- Complete with panel sealing gasket



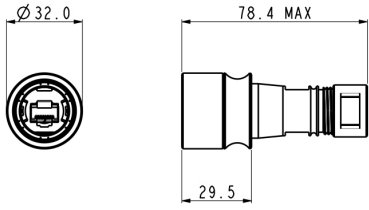
Part no	Description	Fixing
PXP6033TP	Cat 5e coupler	Front panel mounted - sealed through panel
PXP6033TP/E	Cat 5e coupler + earth wire	Front panel mounted - sealed through panel

Re-wireable Flex Connector



PXM6034

- Mates with PXM6033TP type panel mounting connectors
- 30° twist locking
- Supplied with shielded RJ45 plug
- Two versions:
for PUR jacket cable (Cat 5e)
for other cable sizes from 4.0 to 10.0mm dia.



Technical drawing showing dimensions: $\varnothing 32.0$, 78.4 MAX, 29.5

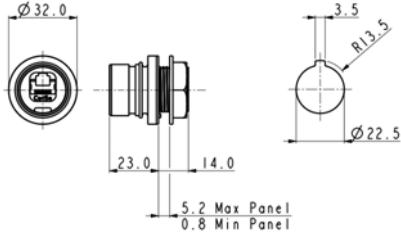
Part no	Description
PXM6034/A	Cable glands optimised for PUR jacket cable to maintain Cat 5e performance
PXM6034/B	Suitable for use with cables from 4.0 to 10.0mm diameter

Front Panel Mounting Connector



PXM6033

- Sealed through panel
- Cat 5e shielded coupler
- Mates with PXM6034 type flex connectors
- Standard RJ45 patchcord can be plugged into rear
- Connector shell ground to cable screen
- Single hole fixing
- Complete with panel sealing gasket



Technical drawing showing dimensions: $\varnothing 32.0$, 23.0, 14.0, 5.2 Max Panel, 0.8 Min Panel, 3.5, R13.5, $\varnothing 22.5$

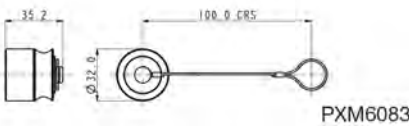
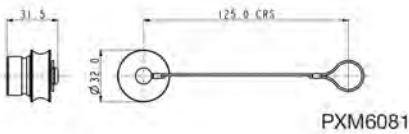
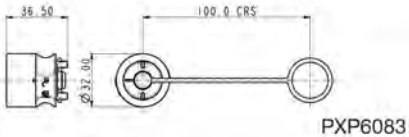
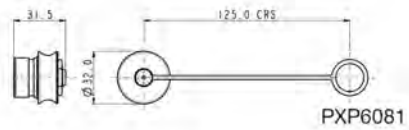
Part no	Description	Fixing
PXM6033TP	Cat 5e coupler	Front panel mounted - sealed through panel

Accessories For Ethernet Connectors



PXM6034

- Plastic connectors
- PXP6081 for cable connectors
 - PXP6034, PXP6037 & PXP6038
 - PXP6083 for front panel mount connectors PXP6033, with 30° twist lock
- Sealing caps to maintain IP rating when connectors are not in use



Part no	Description
PXP6081	Sealing Cap for plastic Flex cable connectors
PXP6083	Sealing Cap for plastic front panel mounting connector

Accessories For Ethernet Connectors



PXM6033

- Metal connectors
- PXM6081 for cable connectors
 - PXM6034
 - PXM6083 for front panel mount connectors
- Sealing caps to maintain IP rating when connectors are not in use

Part no	Description
PXM6081	Sealing Cap for metal Flex cable connectors
PXM6083	Sealing Cap for metal front panel mounting connector
14151	Hand crimp tooling + die set
14199	PUR Jacket cable - 50m reel
14150	Replacement shielded RJ45



PX X	6XXX	XX	X
Series Designation PXP - Plastic PXM - Metal	Series / Body Style 033 = Panel 034 = Re-wireable Flex 037 = Patchcord (Single Ended) 038 = Patchcord (Double Ended)	Panel Sealing TP = through panel sealing (for use with PXP6033 panel body only) Blank = not applicable	Characteristics E = Earth lead (for use with PXP6033 plastic panel body only) A = Glanding for PUR cable (for use with PXP6034 re-wireable flex only) B = Glanding for 3.5 to 8mm cables (for use with PXP6034 re-wireable flex only) 2M00 = 2 metre cable length (for use with PXP6037 and PXP6038 patchcords only) 3M00 = 3 metre cable length (for use with PXP6037 and PXP6038 patchcords only) 5M00 = 5 metre cable length (for use with PXP6037 and PXP6038 patchcords only)

Examples

- PXP6033TP/E= Panel mounted coupler, sealed through panel with earth lead
- PXP6037/2M00= Patchcord with one sealed end, 2 metres long
- PXM6034/A = Flex re-wireable connector for use with PUR cable
- PXM6033TP = Panel mounted coupler, through panel sealed

Ethernet – Metal and Thermo-plastic versions

Connectors

Mechanical

Sealing	IP69K, DIN40050-9 IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP66, EN60529:1992+A2:2013
Salt Mist:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Operating Temperature	
Re-wireable and Metal	-20°C to +70°C
Overmoulded patchcords	0°C to +70°C

Materials - Overmoulded

Overmould material	PVC (black)
Flammability rating	UL94V-0

Materials - Re-wireable and Panel Connectors

Plastic	PC/PBT
Metal	Machined Brass, Nickel Plated
Flammability rating	UL94V-0
'O' rings	Silicone
Panel Gasket - round	Silicone
Panel Gasket - flange	Silicone
Approvals	

RoHS	Compliant
------	-----------

Stranded S-FTP Patch cord cable - PUR Jacket

Polyurethane (PUR) jacket cable with internal construction exceeding Cat 5e performance levels. The PUR jacket has excellent abrasion, chemical and ozone resistance, low smoke, low halogen flame retardant construction suitable for internal and external industrial environments.

Cable

Conductors	24AWG (7/0.2mm) bare copper
Insulation	HD-PE
Pair	2 of the above cores twisted
Core	4 of the above cores
Tape	1 lap mylar tape
Screen	1 layer mylar and aluminium tape, 0.12mm tinned copper braid
Sheath	PUR Jacket Black
Op Temperature	-25°C to +85°C
Min. bend radius	10 x o/d (installation)
Min. bend radius	6 x o/d (installed)
Diameter	6.1mm nominal

Electrical @ 20°C

Characteristic Impedance	100Ω ±15Ω @ 100MHz
Capacitance	330pF/km
Conductor Loop resistance	29Ω/100m maximum
Skew	45 nsec/100m @ 100MHz
TIA/EIA Rating	Cat 5e

Cable construction - PXP6037, PXP6038 and 14199

PCB adaptor leads

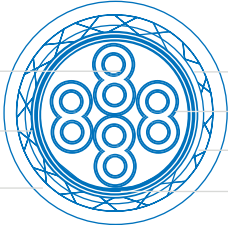
Electrical

No. of conductors	4
Current rating	1A
Voltage rating	30Vac (RMS)
Contact resistance	<10mΩ max.
PCB pitch	2.54mm

Materials

Moulding	Polycarbonate
Flammability	UL94V-0
Contact material	Copper Alloy
Contact plating	30 micro inch Gold
Wire insulation	PVC (black)
Flammability	UL94-V0
Conductors	4 x 28AWG
Operating temperature	0°C to +70°C
Mating cycles	1,000
RoHS	Compliant

Cable construction - PXP6040, PXP6041

24 AWG - 7/0.20mm conductor		Mylar tape
Braiding 7/0.12mm		Insulation - HD-PE
Jacket		Aluminium/PEPT tape
6.10mm dia.		Drain Wire

Manufactured from Stainless Steel, Bulgin's **extensive range** of vandal resistant security switches are designed with a **high resistance** to wear and tear, corrosion and harsh use in potentially hostile environments such as access control applications.

The front and rear panel mounted versions have three profiles –prominent, domed and low profile – with a choice of switching and IP66 & IP68 front panel sealing which combined together to meet the ergonomic, electrical and environmental demands of switch panel design.

And where the ultimate strength of steel is not needed, there is a brass, chrome plated alternative. The low profile style switches are now also available with a latching, push on - push off, action.

The illuminated versions are available in dot and ring LED indication and a variety of illumination colours including bi-colour LED's. Newer versions also feature LED illumination driven by 6V, 12V & 24V together with rear of panel sealing, these options will add that extra dimension to control panel layouts and functionality.

Vandal Resistant
Push Button
Voltage Selectors
Piezo

94-111
112-113
114
115-120

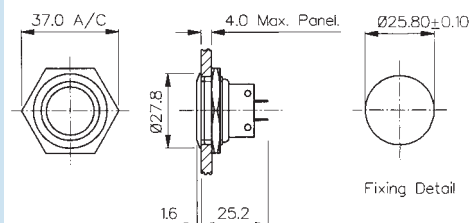


Front Panel Mounting



MP0027

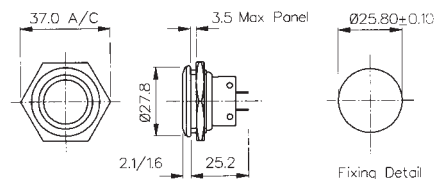
- 28mm diameter
- S.P.C.O. Microswitch
- 5A, 250Vac



Front Panel Mounting

MP0038
Sealed to IP66

- Front Panel Sealed to IP66
- 28mm diameter
- S.P.C.O. Microswitch
- 5A, 250Vac

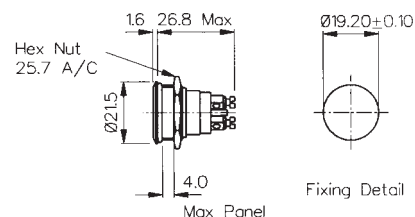


Specifications	MP0027	MP0038
Terminations:	Solder Tags	Solder Tags
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	5A, 250Vac 2A, 28Vdc	5A, 250Vac 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10 ³ MΩ	>10 ³ MΩ
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):		Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations		
Mechanical:	1,000,000 (min)	1,000,000 (min)
Electrical:	35,000 (min)	35,000 (min)
Operating Pressure:	7.5N (typ)	12.5N (typ)
Rear Nut Fixing Torque:	2.5Nm	1.13Nm
Materials		
Mouldings:	Glass Filled Nylon	Glass Filled Nylon
Tags/Terminations:	Brass, Tin Plated	Brass, Tin Plated
Switch Body & Button:	Stainless Steel	Stainless Steel
Contacts:	Fine Silver	Fine Silver
Thread size:	1.0" x 26TPI	1.0" x 26TPI
RoHS	Compliant	Compliant

Front Panel Mounting


MP0037
 Sealed to IP68

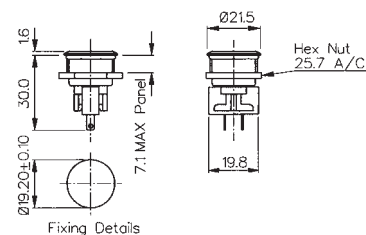
- Front Panel Sealed to IP68
- 21.5mm diameter
- S.P. Push to Make
- 1A, 50Vac/dc
- Industry Standard Size



Front Panel Mounting


MP0031
 Sealed to IP66

- Front Panel Sealed to IP66
- 21.5mm diameter
- S.P.C.O. Microswitch
- 5A, 250Vac



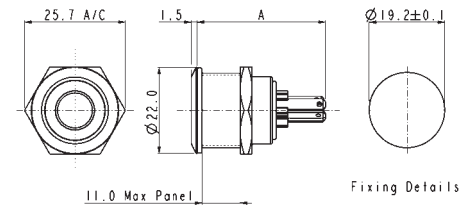
Specifications	MP0037	MP0031
Terminations:	Screw Terminals	Solder Tags
Switching:	S.P. Push to make Momentary action	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	1A, 50Vac/dc	5A, 250Vac 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10 ⁵ MΩ	>10 ³ MΩ
Dielectric Strength:	>1.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP68 EN 60529:1992+A2:2013 (Micro switch not sealed)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
IP68 rating 10M for 2 weeks test:	Passed	
Operations		
Mechanical:	1,000,000 (min)	1,000,000 (min)
Electrical:	30,000 (min)	35,000 (min)
Operating Pressure:	7.5N (typ)	4.7N (typ)
Rear Nut Fixing Torque:	0.57Nm	0.57Nm
Materials		
Mouldings:	Glass Filled Nylon	Glass Filled Nylon
Tags/Terminations:	Brass, Silver Plated	Brass, Tin Plated
Switch Body & Button:	Stainless Steel	Stainless Steel
Contacts:	Brass, Silver Plated, Silver	Fine Silver
Thread size:	0.747" x 26TPI	0.747" x 26TPI
RoHS	Compliant	Compliant

Front Panel Mounting



MPI001 - front panel seal to IP66

- Dot illumination
- 22mm diameter
- Single pole push to make
- 50mA, 24Vdc contact rating
- Red, Green, Amber, Blue, White or dual colour illumination
- Bright daylight LEDs
- Independent LED terminals
- Front panel seal to IP66
- Integral supply resistors
- TVS protection



MPI001/TAG/COL A = 32.7
 MPI001/TERM/COL A = 31.0 MAX.

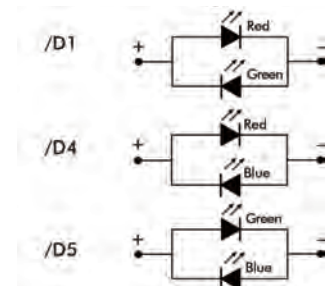
Specifications

MPI001/Termination/Colour/Voltage

Illumination style:	Dot							
Terminations:	/28 (2.8mm tabs), /TERM or /TE (screw terminals)							
Switching:	Single pole, push to make, tactile (momentary action)							
Max. Switch Rating:	50mA, 24Vdc							
LEDs (ratings @ 20mA)								
Part No.	/RD	/GN	/AM	/BL	/WH	/D1	/D4	/D5
Colours	Red	Green	Amber	Blue	White	Red/Green	Red/Blue	Green/Blue
Luminous Intensity	900mcd	2500mcd	900mcd	1500mcd	900mcd	2500mcd/5000mcd	2000mcd/850mcd	4000mcd/2000mcd
Forward Voltage	1.85V	3.5V	2.3V	3.5V	3.6V	2.05V/3.6V	2.0V/3.6V	3.6V/3.6V
Forward Current	20mA	20mA	20mA	20mA	20mA	20mA	20mA	20mA
Moulding Colour	Red	Green	Amber	Blue	White	Black	Black	Black
Illumination Voltage:	/no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above.							
	/6	6Vdc						
	/12	12Vdc						
	/24	24Vdc						
Contact Resistance:	<100mΩ							
Insulation Resistance:	>10 ⁹ MΩ							
Dielectric Strength:	Contact to Panel >2.0kV Contact to Contact 1500							
Operating Temp. Range:	-30°C to +70°C							
Sealing (Front of panel only):	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)							
Operations								
Mechanical:	750,000 (min)							
Electrical:	35,000 (min)							
Operating Pressure:	12N							
Rear Nut Fixing Torque:	0.57Nm							
Screw Terminal Torque	0.2Nm Max							
Materials								
Switch assembly:	UL94V-0 rated Polyamide (Nylon)							
Tags:	Copper Alloy							
Terminals:	Copper Alloy							
Switch Body & Button:	Stainless Steel							
Lens and Lens Body:	Polycarbonate							
O ring:	Nitrile							
Internal seal:	Silicone							
Contact Plate:	Gold Plated							
Thread size:	18.97mm x 26TPI							

ESD Handling precautions must be taken
 Compliant

Dual Colour LED Configuration

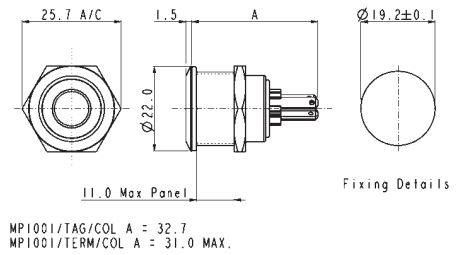


Front Panel Mounting



MPI002- front panel seal to IP66

- Ring illumination
- 22mm diameter
- Single pole push to make
- 50mA, 24Vdc contact rating
- Red, Green, Amber, Blue, White or dual colour illumination
- Bright daylight LEDs
- Independent LED terminals
- Front panel seal to IP66
- Integral supply resistors
- TVS protection



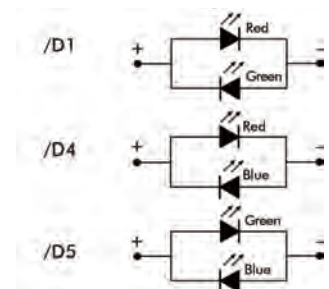
Specifications

MPI002/Termination/Colour/Voltage

Illumination style:	Ring							
Terminations:	/28 (2.8mm tabs), /TERM or /TE (screw terminals)							
Switching:	Single pole, push to make, tactile (momentary action)							
Max. Switch Rating:	50mA, 24Vdc							
LEDs (ratings @ 20mA)								
Part No.	/RD	/GN	/AM	/BL	/WH	/D1	/D4	/D5
Colours	Red	Green	Amber	Blue	White	Red/Green	Red/Blue	Green/Blue
Luminous Intensity	900mcd	2500mcd	900mcd	1500mcd	900mcd	2500mcd/5000mcd	2000mcd/850mcd	4000mcd/2000mcd
Forward Voltage	1.85V	3.5V	2.3V	3.5V	3.6V	2.05V/3.6V	2.0V/3.6V	3.6V/3.6V
Forward Current	20mA	20mA	20mA	20mA	20mA	20mA	20mA	20mA
Moulding Colour	Red	Green	Amber	Blue	White	Black	Black	Black
Illumination Voltage:	/no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above.							
	/6	6Vdc						
	/12	12Vdc						
	/24	24Vdc						
Contact Resistance:	<100mΩ							
Insulation Resistance:	>10 ³ MΩ							
Dielectric Strength:	Contact to Panel >2.0kV Contact to Contact 1500							
Operating Temp. Range:	-30°C to +70°C							
Sealing (Front of panel only):	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)							
Operations								
Mechanical:	750,000 (min)							
Electrical:	35,000 (min)							
Operating Pressure:	12N							
Rear Nut Fixing Torque:	0.57Nm							
Screw Terminal Torque	0.2Nm Max							
Materials								
Switch assembly:	UL94V-0 rated Polyamide (Nylon)							
Tags:	Copper Alloy							
Terminals:	Copper Alloy							
Switch Body & Button:	Stainless Steel							
Lens and Lens Body:	Polycarbonate							
O ring:	Nitrile							
Internal seal:	Silicone							
Contact Plate:	Gold Plated							
Thread size:	18.97mm x 26TPI							

ESD Handling precautions must be taken
Compliant

Dual Colour LED Configuration

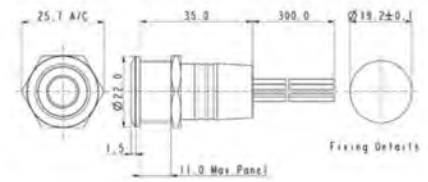


Rear Panel Sealed - Flying Leads



MPI002/FL/xx/x

- Ring illumination
- 22mm diameter
- Single pole push to make
- 50mA, 24Vdc contact rating
- Red, Green, Amber, Blue, White or dual colour illumination
- Bright daylight LEDs
- Independent LED terminals
- Front panel seal to IP66
- Integral supply resistors
- TVS protection



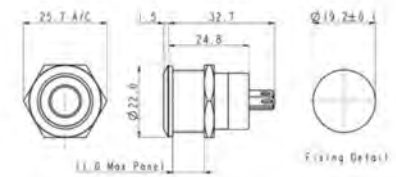
Flying lead colours: LED: red + and black -. Switch contacts: white.

Rear Panel Sealed - Solder Tags



MPI001/RP/xx/x

- Dot or ring illumination
- 22mm diameter
- Single pole push to make
- 50mA, 24Vdc contact rating
- Red, Green, Amber, Blue & White illumination
- Bright daylight LEDs
- Independent LED terminals
- Front and rear panel seal to IP66
- Solder tag termination
- TVS protection



LED terminals marked + and -. Switch terminals unmarked.

Specifications

MPI001/Termination/Colour/Voltage

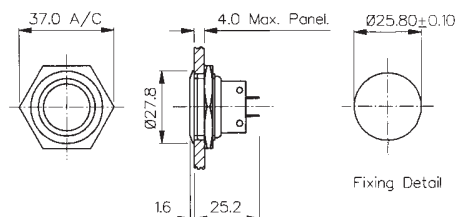
MPI002/Termination/Colour/Voltage

Illumination style: Terminations: Switching: Max. Switch Rating: LEDs (ratings @ 20mA) Part No. Colours Luminous Intensity Forward Voltage Forward Current Moulding Colour	Dot /FL (Flying leads) /RP (Solder tags) Single pole, push to make, tactile (momentary action) 50mA, 24Vdc /RD /GN /AM /BL /WH Red Green Amber Blue White 900mcd 2500mcd 900mcd 1500mcd 900mcd 1.85V 3.5V 2.3V 3.5V 3.6V 20mA 20mA 20mA 20mA 20mA Red Green Amber Blue White	Ring /FL (Flying leads) /RP (Solder tags) Single pole, push to make, tactile (momentary action) 50mA, 24Vdc /RD /GN /AM /BL /WH Red Green Amber Blue White 900mcd 2500mcd 900mcd 1500mcd 900mcd 1.85V 3.5V 2.3V 3.5V 3.6V 20mA 20mA 20mA 20mA 20mA Red Green Amber Blue White
Illumination Voltage: Contact Resistance: Insulation Resistance: Dielectric Strength: Operating Temp. Range: Sealing (Front of panel only): Operations Mechanical: Electrical: Operating Pressure: Rear Nut Fixing Torque: Materials Switch assembly: Tags: Terminals: Switch Body & Button: Lens and Lens Body: O ring: Internal seal: Contact Plate: Thread size:	/no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above. /6 6Vdc /12 12Vdc /24 24Vdc <100mΩ >10 ³ MΩ Contact to Panel >2.0kV Contact to Contact 1500 -30°C to +70°C Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed) 750,000 (min) 35,000 (min) 12N 0.57Nm UL94V-0 rated Polyamide (Nylon) Copper Alloy Copper Alloy Stainless Steel Polycarbonate Nitrile Silicone Gold Plated 18.97mm x 26TPI ESD Handling precautions must be taken Compliant	/no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above. /6 6Vdc /12 12Vdc /24 24Vdc <100mΩ >10 ³ MΩ Contact to Panel >2.0kV Contact to Contact 1500 -30°C to +70°C Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed) 750,000 (min) 35,000 (min) 12N 0.57Nm UL94V-0 rated Polyamide (Nylon) Copper Alloy Copper Alloy Stainless Steel Polycarbonate Nitrile Silicone Gold Plated 18.97mm x 26TPI ESD Handling precautions must be taken Compliant

Front Panel Mounting


MPB038
 Sealed to IP66

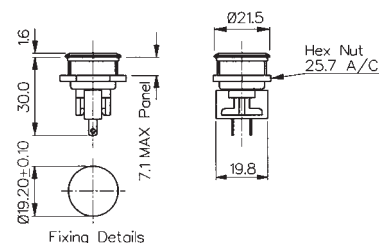
- Front Panel Sealed to IP66
- 28mm diameter
- S.P.C.O. Microswitch
- 5A, 250Vac



Front Panel Mounting


MPB031
 Sealed to IP66

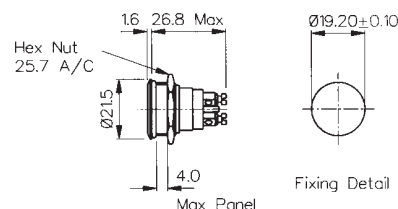
- Front Panel Sealed to IP66
- 21mm diameter
- S.P.C.O. Microswitch
- 5A, 250Vac



Front Panel Mounting


MPB037
 Sealed to IP68

- Front Panel Sealed to IP68
- 21.5mm diameter
- S.P. Push to Make
- 1A, 50Vac/dc



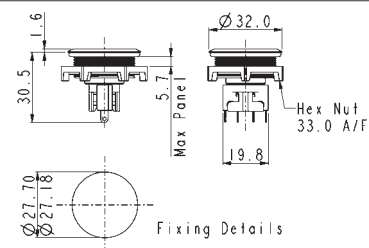
Specifications	MPB038	MPB031	MPB037
Terminations:	Solder Tags	Solder Tags	Screw Terminals
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)	S.P. Push to make Momentary action
Max. Rating:	5A, 250Vac. 2A, 28Vdc	5A, 250Vac. 2A, 28Vdc	1A, 50Vac/dc
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Insulation Resistance:	>10 ³ MΩ	>10 ³ MΩ	>10 ⁵ MΩ
Dielectric Strength:	>2.0kVac	>2.0kVac	>1.0kVac
Operating Temp. Range:	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)	Protection Classification: IP68 EN60529-1:1992 + A2:2013. (Micro switch not sealed) (10m for 2 weeks)
Operations			
Mechanical:	1,000,000 (min)	1,000,000 (min)	1,000,000 (min)
Electrical:	35,000 (min)	35,000 (min)	30,000 (min)
Operating Pressure:	12.5N (typ)	4.7N (typ)	7.5N (typ)
Rear Nut Fixing Torque:	1.13Nm	0.57Nm	0.57Nm
Materials			
Mouldings:	Glass Filled Nylon	Glass Filled Nylon	Glass Filled Nylon
Tags/Terminations:	Brass, Tin Plated	Brass, Tin Plated	Brass, Tin Plated
Switch Body & Button:	Brass	Brass	Brass
Contacts:	Fine Silver	Fine Silver	Brass, Silver Plated, Silver
Thread size:	1.0" x 26TPI	0.747" x 26TPI	0.747" x 26TPI
RoHS	Compliant	Compliant	Compliant

Front Panel Mounting - Low Profile



MP0050

- Front Panel Sealed to IP68
- Flush button
- 32.0mm diameter
- S.P.C.O. switching
- Momentary action
- 5A, 250Vac

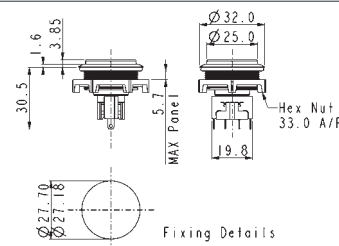


Front Panel Mounting - Protruding Profile



MP0050/2

- Front Panel Sealed to IP68
- Protruding button
- 32.0mm diameter
- S.P.C.O. switching
- Momentary action
- 5A, 250Vac



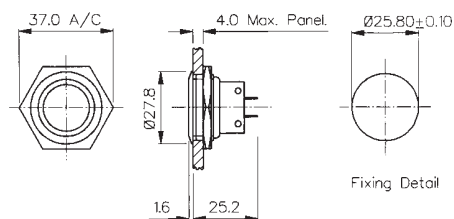
Specifications	MP0050	MP0050/2
Terminations:	Solder Tags	Solder Tags
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	5A, 250Vac. 2A, 28Vdc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10 ⁹ MΩ	>10 ⁹ MΩ
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations		
Mechanical:	1,000,000 (min)	1,000,000 (min)
Electrical:	35,000 (min)	35,000 (min)
Operating Pressure:	4.7Nm	4.7N (typ)
Rear Nut Fixing Torque:	0.57Nm	0.57Nm
Materials		
Mouldings:	Glass Filled Nylon	Glass Filled Nylon
Tags/Terminations:	Brass, Tin Plated	Brass, Tin Plated
Switch Body & Button:	Stainless Steel	Stainless Steel
Contacts:	Fine Silver	Fine Silver
Thread size:	M27 x 1.0-6H	M27 x 1.0-6H
RoHS	Compliant	Compliant

Front Panel Mounting



MP0027/3

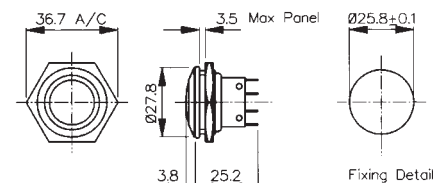
- 28mm diameter
- Domed Profile
- S.P.C.O. Microswitch
- 5A, 250Vac



Front Panel Mounting

MP0038/3
Sealed to IP66

- Front Panel Sealed to IP66
- 28mm diameter
- Domed Profile
- S.P.C.O. Microswitch
- 5A, 250Vac

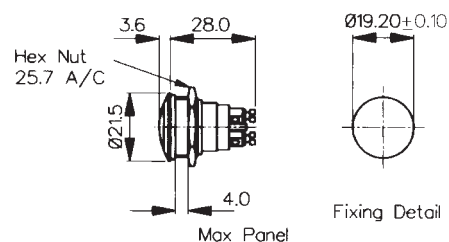
**Specifications****MP0027/3****MP0038/3**

Terminations:	Solder Tags	Solder Tags
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	5A, 250Vac. 2A, 28Vdc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10 ³ MΩ	>10 ³ MΩ
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):		Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations		
Mechanical:	1,000,000 (min)	1,000,000 (min)
Electrical:	35,000 (min)	35,000 (min)
Operating Pressure:	7.5N (typ)	12.5N (typ)
Rear Nut Fixing Torque:	2.5Nm	1.13Nm
Materials		
Mouldings:	Glass Filled Nylon	Glass Filled Nylon
Tags/Terminations:	Brass, Tin Plated	Brass, Tin Plated
Switch Body & Button:	Stainless Steel	Stainless Steel
Contacts:	Fine Silver	Fine Silver
Thread size:	1.0" x 26TPI	0.747" x 26TPI
RoHS	Compliant	Compliant

Front Panel Mounting

MP0037/3
Sealed to IP68

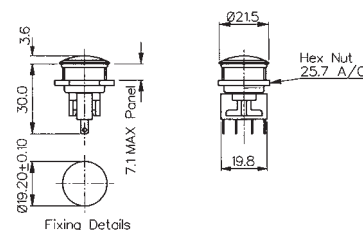
- Front Panel Sealed to IP68
- 21.5mm diameter
- Domed Profile
- S.P. Push to Make
- 1A, 50Vac/dc



Front Panel Mounting

MP0031/3
Sealed to IP66

- Front Panel Sealed to IP66
- 21.5mm diameter
- Domed Profile
- S.P.C.O. Microswitch
- 5A, 250Vac



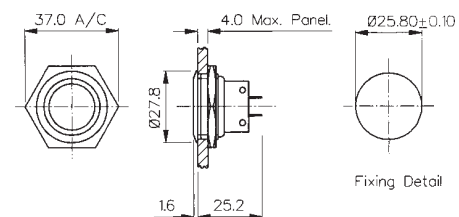
Specifications	MP0037/3	MP0031/3
Terminations:	Screw Terminals	Solder Tags
Switching:	S.P. Push to make Momentary action	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	1A, 50Vac/dc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10 ⁵ MΩ	>10 ³ MΩ
Dielectric Strength:	>1.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP68 EN60529-1:1992 + A2:2013. (Micro switch not sealed) (10m for 2 weeks)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations		
Mechanical:	1,000,000 (min)	1,000,000 (min)
Electrical:	35,000 (min)	35,000 (min)
Operating Pressure:	7.5N (typ)	4.7N (typ)
Rear Nut Fixing Torque:	2.5Nm	0.57Nm
Materials		
Mouldings:	Glass Filled Nylon	Glass Filled Nylon
Tags/Terminations:	Brass, Tin Plated	Brass, Tin Plated
Switch Body & Button:	Stainless Steel	Stainless Steel
Contacts:	Brass, Silver Plated, Silver	Fine Silver
Thread size:	0.747" x 26TPI	0.747" x 26TPI
RoHS	Compliant	Compliant

Front Panel Mounting



MP0027/2

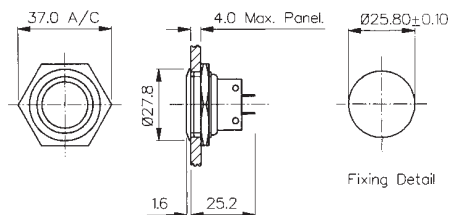
- 28mm diameter
- Prominent Button
- S.P.C.O. Microswitch
- 5A, 250Vac



Front Panel Mounting

MP0038/2
Sealed to IP66

- Front Panel Sealed to IP66
- 28mm diameter
- Prominent Button
- S.P.C.O. Microswitch
- 5A, 250Vac

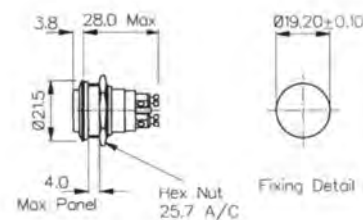


Specifications	MP0027/2	MP0038/2
Terminations:	Solder Tags	Solder Tags
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	5A, 250Vac 2A, 28Vdc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10m Ω	<10m Ω
Insulation Resistance:	>10 ³ M Ω	>10 ³ M Ω
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):		Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations		
Mechanical:	1,000,000 (min)	1,000,000 (min)
Electrical:	35,000 (min)	35,000 (min)
Operating Pressure:	7.5N (typ)	12.5N (typ)
Rear Nut Fixing Torque:	2.5Nm	1.13Nm
Materials		
Mouldings:	Glass Filled Nylon	Glass Filled Nylon
Tags/Terminations:	Brass, Tin Plated	Brass, Tin Plated
Switch Body & Button:	Stainless Steel	Stainless Steel
Contacts:	Fine Silver	Fine Silver
Thread size:	1.0" x 26TPI	1.0" x 26TPI
RoHS	Compliant	Compliant

Front Panel Mounting


 MP0037/2
 Sealed to IP68

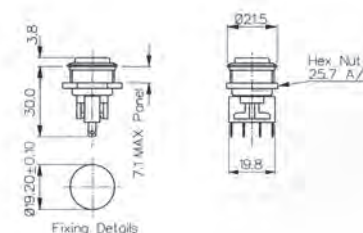
- Front Panel Sealed to IP68
- 21.5mm diameter
- Prominent Button
- S.P. Push to Make
- 1A, 50Vac/dc



Front Panel Mounting


 MP0031/2
 Sealed to IP66

- Front Panel Sealed to IP66
- 21.5mm diameter
- Prominent Button
- S.P.C.O. Microswitch
- 5A, 250Vac



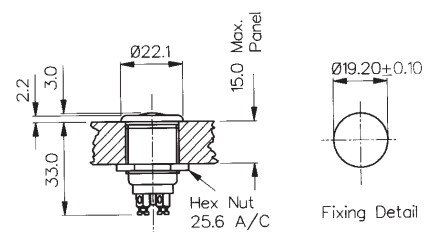
Specifications	MP0037/2	MP0031/2
Terminations:	Screw Terminals	Solder Tags
Switching:	S.P. Push to make Slow momentary action	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	1A, 50Vac/dc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10 ⁵ MΩ	>10 ³ MΩ
Dielectric Strength:	>1.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP68 EN60529-1:1992 + A2:2013. (Micro switch not sealed) (10m for 2 weeks)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations		
Mechanical:	1,000,000 (min)	1,000,000 (min)
Electrical:	35,000 (min)	35,000 (min)
Operating Pressure:	7.5N (typ)	4.7N (typ)
Rear Nut Fixing Torque:	0.57Nm	0.57Nm
Materials		
Mouldings:	Glass Filled Nylon	Glass Filled Nylon
Tags/Terminations:	Brass, Tin Plated	Brass, Tin Plated
Switch Body & Button:	Stainless Steel	Stainless Steel
Contacts:	Brass, Silver Plated, Silver	Fine Silver
Thread size:	0.747" x 26TPI	0.747" x 26TPI
RoHS	Compliant	Compliant

Front Panel Mounting



MP0013
MP0033

- Proud Fitting
- 22mm diameter
- S.P. Push to Make
- 1A, 50V
- Brass, Chrome Plated Body, Stainless Steel Button
- MP0033 Internally Sealed

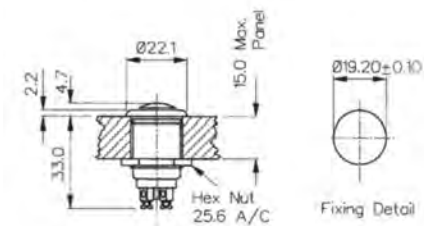


Front Panel Mounting



MP0013/2
MP0033/2

- Prominent Button
- 22mm diameter
- S.P. Push to Make
- 1A, 50V
- Brass, Chrome Plated Body, Stainless Steel Button
- MP0033/2 Internally Sealed



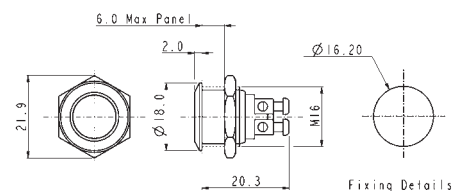
Specifications	MP0013, MP0033	MP0013/2, MP0033/2
Terminations:	Screw Terminals	Screw Terminals
Switching:	S.P. Push to make Slow momentary action	S.P. Push to make Slow momentary action
Max. Rating:	1A, 50Vac/dc	1A, 50Vac/dc
Contact Resistance:	<15mΩ	<15mΩ
Insulation Resistance:	>10 ⁴ MΩ	>10 ⁴ MΩ
Dielectric Strength:	>2.5kVac	>2.5kVac
Operating Temp. Range:	-20°C to +85°C	-20°C to +85°C
Sealing (Front of panel only):	MP0033 only - internally sealed against ingress of water and dust	MP0033/2 only - internally sealed against ingress of water and dust
Materials		
Mouldings:	Glass Filled Nylon	Glass Filled Nylon
Tags/Terminations:	Brass, Silver Plated	Brass, Silver Plated
Switch Body & Button:	Body: Brass, Chrome Plated Button: Stainless Steel	Body: Brass, Chrome Plated Button: Stainless Steel
Contacts:	Copper, Silver Plated	Copper, Silver Plated
Thread Size:	0.747" x 26TPI	0.747" x 26TPI
RoHS	Compliant	Compliant

Flush Profile



MP0042/1

- 18mm bezel diameter
- 16mm panel hole
- S.P. Push to make
- Polished finish
- 2A, 48Vdc

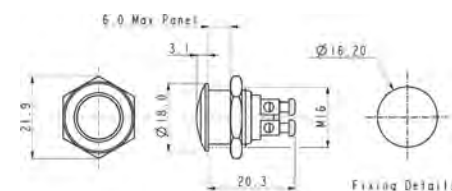


Domed Profile



MP0042/2

- 18mm bezel diameter
- 16mm panel hole
- S.P. Push to make
- Polished finish
- 2A, 48Vdc

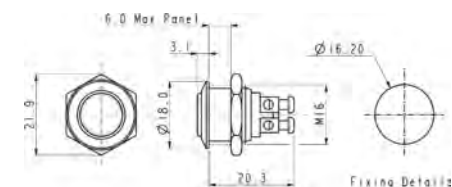


Prominent Button



MP0042/3

- 18mm bezel diameter
- 16mm panel hole
- S.P. Push to make
- Polished finish
- 2A, 48Vdc



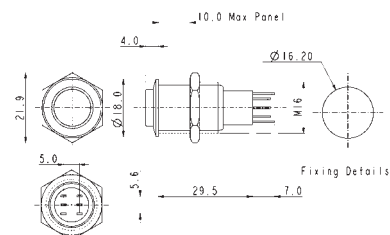
Specifications	MP0042/1	MP0042/2	MP0042/3
Terminations:	Screw Terminals	Screw Terminals	Screw Terminals
Switching:	S.P. Push to make	S.P. Push to make	S.P. Push to make
Max. Rating:	2A, 48Vdc	2A, 48Vdc	2A, 48Vdc
Contact Resistance:	50mΩ at 1A, 2V	50mΩ at 1A, 2V	50mΩ at 1A, 2V
Insulation Resistance:	>10 ³ MΩ @ 500Vdc	>10 ³ MΩ @ 500Vdc	>10 ³ MΩ @ 500Vdc
Dielectric Strength:	>2.0kVac	>2.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C
Operations			
Mechanical:	1,000,000 (min)	1,000,000 (min)	1,000,000 (min)
Electrical:	100,000 (min)	100,000 (min)	100,000 (min)
Rear Nut Fixing Torque:	12Nm	12Nm	12Nm
Materials			
Mouldings:	Nylon	Nylon	Nylon
Tags/Terminations:	Brass, Silver Plated	Brass, Silver Plated	Brass, Silver Plated
Switch Body & Button:	Stainless Steel (Polished)	Stainless Steel (Polished)	Stainless Steel (Polished)
Contacts:	Silver	Silver	Silver
Thread size:	Gold Plated Brass version available	Gold Plated Brass version available	Gold Plated Brass version available
RoHS	Compliant	Compliant	Compliant

Low Profile



MP0045/1D

- 18mm bezel diameter
- 16mm fixing hole diameter
- D.P.C.O
- 3A, 250V

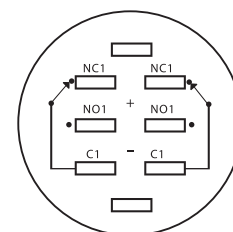
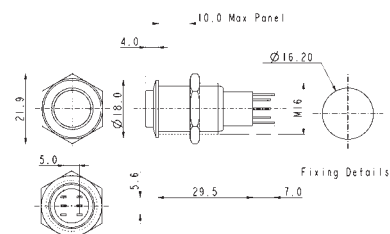


Prominent Button



MP0045/3D

- 18mm bezel diameter
- 16mm fixing hole diameter
- D.P.C.O
- 3A, 250V



Contact Layout

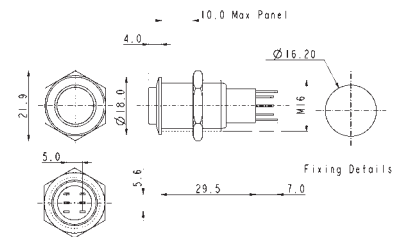
Specifications	MP0045/1D0NN000	MP0045/3D0NN000
Terminations:	Solder tags	Solder tags
Switching:	D.P.C.O Momentary Action	D.P.C.O Momentary Action
Max. Rating:	3A, 250V	3A, 250V
Contact Resistance:	50mΩ max. @ 1A, 2V	50mΩ max. @ 1A, 2V
Insulation Resistance:	>10 ³ MΩ @ 500Vdc	>10 ³ MΩ @ 500Vdc
Dielectric Strength:	> 2.0kVac	> 2.0kVac
Operating Temp. Range:	-20°C to +55°C	-20°C to +55°C
Operations		
Mechanical:	200,000 (min)	200,000 (min)
Electrical:	30,000 (min)	30,000 (min)
Rear Nut Fixing Torque:	12Nm	12Nm
Materials		
Mouldings:	Nylon	Nylon
Tags/Terminations:	Brass, Silver Plated	Brass, Silver Plated
Switch Body & Button:	Stainless Steel	Stainless Steel
Contacts:	Silver	Silver
Variants:	Nickel Plated Brass version available Details on request	Nickel Plated Brass version available Details on request
RoHS	Compliant	Compliant

Low Profile



MP0045/1E

- 18mm bezel diameter
- 16mm fixing hole diameter
- D.P.C.O.
- 3A, 250Vac

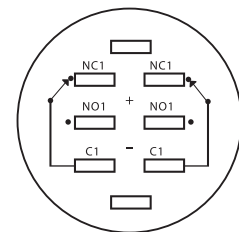
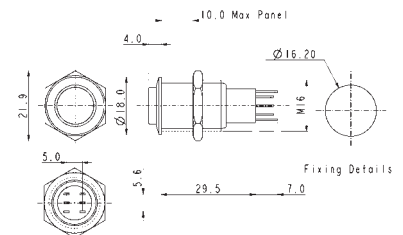


Prominent Button



MP0045/3E

- 18mm bezel diameter
- 16mm fixing hole diameter
- D.P.C.O.
- 3A, 250Vac



Contact Layout

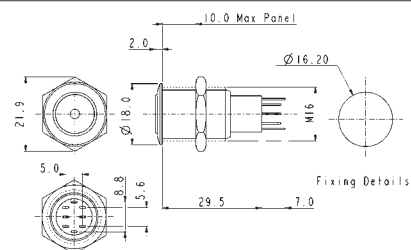
Specifications	MP0045/1E0NN000	MP0045/3E0NN000
Terminations:	Solder Tags	Solder Tags
Switching:	D.P.C.O. - Latching Action	D.P.C.O. - Latching Action
Max. Rating:	3A, 250V	3A, 250V
Contact Resistance:	50mΩ max. @ 1A, 2V	50mΩ max. @ 1A, 2V
Insulation Resistance:	>10 ³ MΩ @ 500Vdc	>10 ³ MΩ @ 500Vdc
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +55°C	-20°C to +55°C
Operations		
Mechanical:	200,000 (min)	200,000 (min)
Electrical:	30,000 (min)	30,000 (min)
Rear Nut Fixing Torque:	12Nm	12Nm
Materials		
Mouldings:	Nylon	Nylon
Tags/Terminations:	Brass, Tin Plated	Brass, Tin Plated
Switch Body & Button:	Stainless Steel (Polished)	Stainless Steel (Polished)
Contacts:	Silver	Silver
Thread size:	Nickel Plated Brass version Details on request	Nickel Plated Brass version Details on request
RoHS	Compliant	Compliant

Front Panel Mounting



MP0045/1D1

- ⬡ Dot Illuminated
- ⬡ 18mm bezel diameter
- ⬡ D.P.C.O.
- ⬡ 3A, 250V ac
- ⬡ Red, Green, Amber or Blue Illumination
- ⬡ Separate LED Terminals

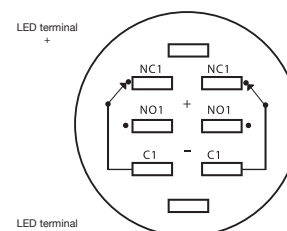
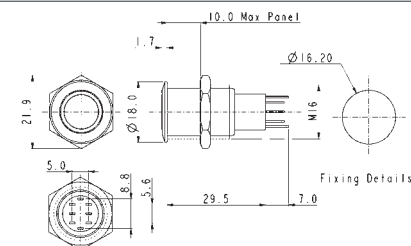


Front Panel Mounting



MP0045/1D2

- ⬡ Ring Illuminated
- ⬡ 18mm bezel diameter
- ⬡ D.P.C.O.
- ⬡ 3A, 250V ac
- ⬡ Red, Green, Amber or Blue Illumination
- ⬡ Separate LED Terminals



Contact Layout

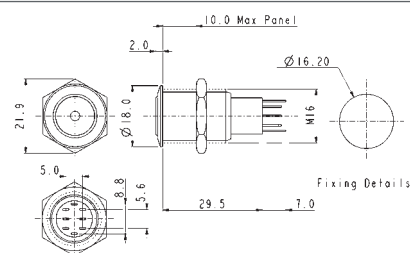
Specifications	MP0045/1D1/Colour/Voltage				MP0045/1D2/Colour/Voltage			
Terminations:	Solder Tags				Solder Tags			
Illumination:	Dot				Ring			
Switching:	D.P.C.O. Momentary Action				D.P.C.O. Momentary Action			
Max. Switch Rating:	3A, 250Vac				3A, 250Vac			
LEDs								
Colours	Red	Green	Amber	Blue	Red	Green	Amber	Blue
Part No.	/RD	/GN	/AM	/BL	/RD	/GN	/AM	/BL
Voltage	12Vdc	220Vdc			12Vdc	220Vdc		
Part No.	/012	/220			/012	/220		
Contact Resistance:	50mΩ max. @ 1A, 2Vdc				50mΩ max. @ 1A, 2Vdc			
Insulation Resistance:	>10³ MΩ @ 500Vac				>10³ MΩ @ 500Vac			
Dielectric Strength:	>2.0kVac				>2.0kVac			
Operating Temp. Range:	−20°C to +55°C				−20°C to +55°C			
Operations								
Mechanical:	200,000 (min)				200,000 (min)			
Electrical:	30,000 (min)				30,000 (min)			
Rear Nut Fixing Torque:	12Nm				12Nm			
Materials								
Mouldings:	Nylon				Nylon			
Tags:	Brass, Silver Plated				Brass, Silver Plated			
Switch Body & Button:	Stainless Steel (Polished)				Stainless Steel (Polished)			
Variants	Prominent Button, details on request				Prominent Button, details on request			
RoHS	Compliant				Compliant			

Front Panel Mounting



MP0045/1E1

- Dot Illuminated
- 18mm bezel diameter
- D.P.C.O.
- 3A, 250V ac
- Red, Green, Amber or Blue Illumination
- Separate LED Terminals

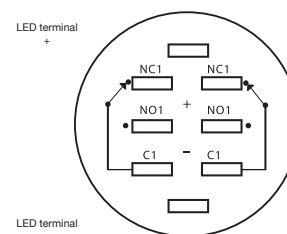
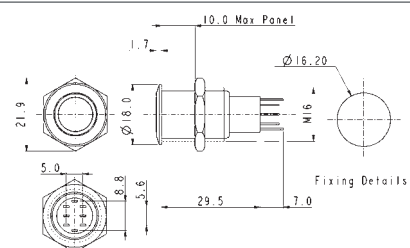


Front Panel Mounting



MP0045/1E2

- Ring Illuminated
- 18mm bezel diameter
- D.P.C.O.
- 3A, 250V ac
- Red, Green, Amber or Blue Illumination
- Separate LED Terminals



Contact Layout

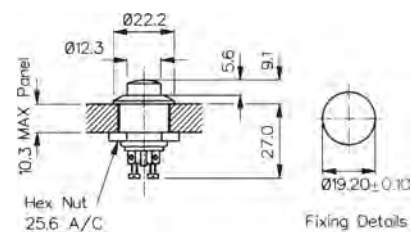
Specifications	MP0045/1E1/Colour/Voltage				MP0045/1E2/Colour/Voltage			
Terminations:	Solder Tags				Solder Tags			
Illumination:	Ring				Ring			
Switching:	D.P.C.O. Momentary Action				D.P.C.O. Momentary Action			
Max. Switch Rating:	3A, 250Vac				3A, 250Vac			
LEDs								
Colours	Red	Green	Amber	Blue	Red	Green	Amber	Blue
Part No.	/RD	/GN	/AM	/BL	/RD	/GN	/AM	/BL
Voltage	12Vdc	220Vdc			12Vdc	220Vdc		
Part No.	/012	/220			/012	/220		
Contact Resistance:	50mΩ max. @ 1A, 2Vdc				50mΩ max. @ 1A, 2Vdc			
Insulation Resistance:	>10³ MΩ @ 500Vac				>10³ MΩ @ 500Vac			
Dielectric Strength:	>2.0kVac				>2.0kVac			
Operating Temp. Range:	−20°C to +55°C				−20°C to +55°C			
Operations								
Mechanical:	200,000 (min)				200,000 (min)			
Electrical:	30,000 (min)				30,000 (min)			
Rear Nut Fixing Torque:	12Nm				12Nm			
Materials								
Mouldings:	Nylon				Nylon			
Tags:	Brass, Silver Plated				Brass, Silver Plated			
Switch Body & Button:	Stainless Steel (Polished)				Stainless Steel (Polished)			
Variants	Prominent Button, details on request				Prominent Button, details on request			
RoHS	Compliant				Compliant			

Front Panel Mounting



MP0012/Col

- 22mm diameter
- Prominent Button
- S.P. Push to Make
- Screw Terminals
- Brass, Chrome Plated Body, Glass Filled Nylon Button

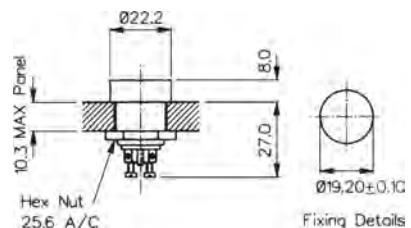


Front Panel Mounting



MP0012/1/Col

- 22mm diameter
- Recessed Button
- S.P. Push to Make
- Screw Terminals
- Brass, Chrome Plated Body, Glass Filled Nylon Button

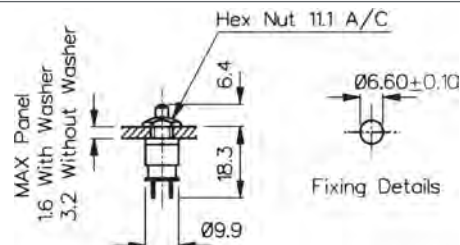


Rear Panel Mounting



MP0016

- S.P. Push to Make
- Solder Tags
- 1A, 28Vac/dc
- Brass Nickel Plated Body, Glass Filled Nylon Button



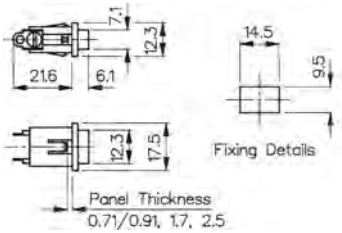
Specifications	MP0012/Colour	MP0012/1/Colour	MP0016/Colour
Terminations:	Screw Terminals	Screw Terminals	Solder Tags
Switching:	S.P. Push to Make Slow Momentary Action	S.P. Push to Make Slow Momentary Action	S.P. Push to Make Slow Momentary Action
Max. Rating:	0.25A. 250Vac, 1A. 110Vac, 2A. 12Vac/dc	0.25A. 250Vac, 1A. 110Vac, 2A. 12Vac/dc	1A 28Vac/dc (non-inductive)
Contact Resistance:	<15mΩ	<15mΩ	<15mΩ
Insulation Resistance:	>10 ⁴ MΩ	>10 ⁴ MΩ	>10 ⁴ MΩ
Dielectric Strength:	>2.5kVac	>2.5kVac	>2.0kVac
Operating Temp. Range:	-20°C to +85°C	-20°C to +85°C	-20°C to +85°C
Operation Pressure (typ):	9.18 newtons	9.18 newtons	6.22 newtons
Materials			
Moulding:	Glass Filled Nylon Brass,	Glass Filled Nylon Brass,	Glass Filled Nylon Brass,
Body:	Brass, Chrome Plated	Brass, Chrome Plated	Brass, Chrome Plated
Contacts/Terms:	Brass, Silver Plated	Brass, Silver Plated	Brass, Silver Plated
Variant	Button Colour: Standard - Black, /RD (Red)	Button Colour: Standard - Black, /RD (Red)	Button Colour: Standard - Black, /RD (Red)
RoHS	Compliant	Compliant	Compliant

Front Panel Mounting



MP0022/Col

- S.P. Push to Make
- Solder Tags
- Nylon Body & Button



Switch Contact Operation



S.P. Push to Make S.P.M.B



S.P.C.O.



D.P.C.O.



D.P.M.B.

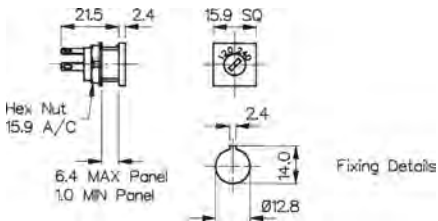
Specifications	MP0022/Colour
Terminations:	Solder Tags
Switching:	S.P. Push to Make Slow Momentary Action
Max. Rating:	0.25A. 250Vac, 0.5A. 110Vac, 1A. 0.1 to 28Vac/dc
Contact Resistance:	<15mΩ
Insulation Resistance:	>10 ⁴ MΩ
Dielectric Strength:	>2.5kVac
Operating Temp. Range:	-20°C to +70°C
Sealing:	
Materials	
Moulding:	Nylon
Tags:	Brass, Silver Plated
Body:	Nylon
Contacts/Terms:	Brass, Silver Plated
Variant	Button Colours: Standard - Black, /WH (White) and /RD (Red). /TERM - (Screw terminals)
RoHS	Compliant

120/140V Voltage Selector



VS0001

- 2.8 series tabs/solder tags
- Square Front Bezel
- 6.3A
- CSA & VDE approvals

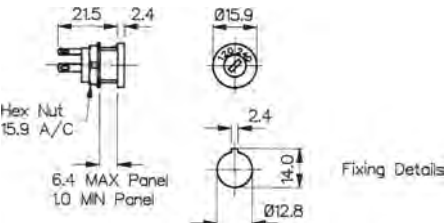


120/140V Voltage Selector

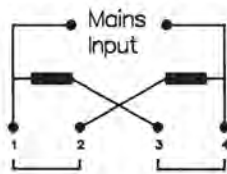


VS0002

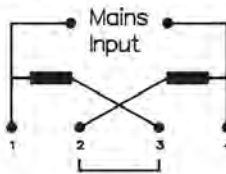
- 2.8 series tabs/Solder tags
- Round Front Bezel
- 6.3A
- CSA & VDE approvals



Connection Parallel 120V



Connection Series 240V



Specifications	VS0001	VS0002
Max. Rating:	6.3A, 120 / 240	6.3A, 120 / 240
Insulation Resistance:	>106 MΩ	>106 MΩ
Termination:	2.8 series tabs/solder tags	2.8 series tabs/solder tags
Temperature Range:	-20°C to +85°C	-20°C to +85°C
Materials:		
Mouldings:	Glass Filled Nylon UL94V-1	Glass Filled Nylon UL94V-1
Tags:	Brass, Silver Plated	Brass, Silver Plated
Contacts:	Copper Silver Alloy	Copper Silver Alloy
Approvals:		
Variants:	Other markings, details on request	Other markings, details on request
RoHS		Compliant

Unlike traditional switches **Piezo** switches have **no moving mechanical parts** making them **extremely durable**, withstanding millions of actuations and requiring little to no maintenance.



Piezo Switches

16mm Stainless Steel

Non Illuminated

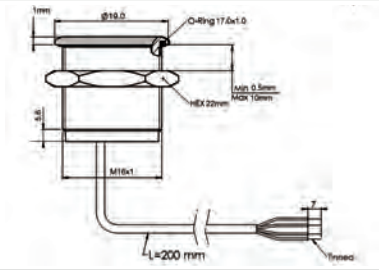


16MM Stainless Steel Non Illuminated



MPZ016

- Non Illuminated
- 20 cm lead
- Flathead or Guided profile



Specification

MPZ016

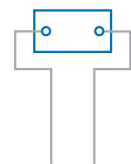
Type	Momentary
Material	Stainless Steel (Aluminium upon request)
Maximum Voltage	24V AC/DC
Switch Resistance “ON“	<1Ω
Switch Resistance “OFF“	5MΩ
Capacitance	100pF
Switching current (momentary)	1A Max
Switching current (prolonged)	300 mA
Switching pulse time (momentary)	up to 0.3 sec
Actuating force, typically	3-5 N
Life cycle	>10 Million

Environmental Specification

Sealing	IP68; IP69K
Operating temperature	-40°C to +85C°
Vibration resistance	5-500Hz/9.4m
Shock resistance	75g (g-force)
RoHS	Compliant

Circuit Specification

16MM Stainless Steel Non Illuminated



Switch voltage	24V AC/DC
Switch Current	1A Max
Power Supply	24V AC/DC

Piezo Switches

19mm Stainless Steel

Illuminated and Non Illuminated

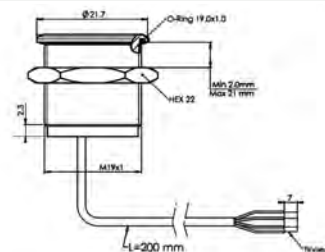


19MM Stainless Steel Illuminated

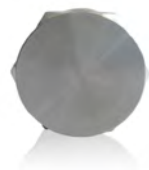


MPZI019

- Blue Illumination
- 20 cm lead
- Flathead

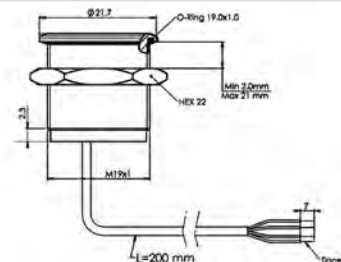


19MM Stainless Steel Non Illuminated



MPZ019

- Non Illumination
- 20 cm lead
- Flathead



Specification

MPZ019, MPZI019

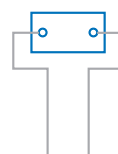
Type	Momentary
Material	Stainless Steel (Aluminium upon request)
Maximum Voltage	24V AC/DC
Switch Resistance "ON"	<1Ω
Switch Resistance "OFF"	5MΩ
Capacitance	100pF
Switching current (momentary)	1A Max
Switching current (prolonged)	300 mA
Switching pulse time (momentary)	up to 0.3 sec
LED Illumination	24V AC/DC
Actuating force, typically	3-5 N
Life cycle	>10 Million

Environmental Specification

Sealing	IP68; IP69K
Operating temperature	-40°C to +85°C
Vibration Resistances	5-500Hz/9.4m
Shock resistance	75g (g-force)
RoHS	Compliant

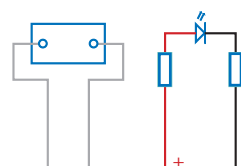
Circuit Specification

19MM Stainless Steel Non Illuminated



Switch voltage	24V AC/DC
Switch Current	1A Max
Power Supply	24V AC/DC

19MM Stainless Steel Illuminated



Switch voltage	24 V AC/DC
Switch Current	1A Max
Colour* Illuminated	24V AC/DC
Power Supply	24V AC/DC

Piezo Switches
22mm Stainless Steel
 Illuminated and Non Illuminated

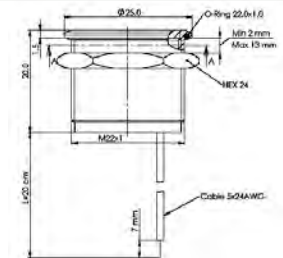


22MM Stainless Steel Non Illuminated



MPZ022

- Non Illumination
- 20 cm lead
- Flathead

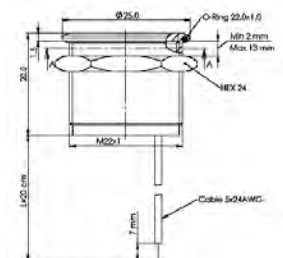


22MM Stainless Steel Illuminated



○ ○
 MPZI022

- Red or Green Illumination
- 1 colour
- 20 cm lead
- Flathead

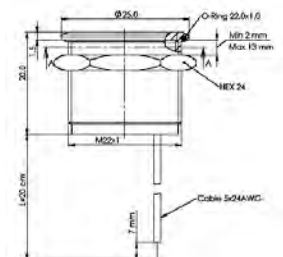


22MM Stainless Steel Illuminated



○ ○
 MPZI022

- Red and Green Illumination
- (2 colour)
- 20 cm lead
- Flathead



Specification

MPZ022, MPZI022

Type	Momentary
Material	Stainless Steel (Aluminium upon request)
Maximum Voltage	24V AC/DC
Switch Resistance "ON"	<1Ω
Switch Resistance "OFF"	5MΩ
Capacitance	100pF
Switching current (momentary)	1A Max
Switching current (prolonged)	300 mA
Switching pulse time (momentary)	up to 0.3 sec
LED Illumination	24V AC/DC
Actuating force, typically	3-5 N
Life cycle	>10 Million

Environmental Specification

Sealing	IP68; IP69K
Operating temperature	-40°C to +85°C°
Vibration Resistances	5-500Hz/9.4m
Shock resistance	75g (g-force)
RoHS	Compliant

Circuit Specification

22MM Stainless Steel Non Illuminated



Switch Voltage	24 AC/DC
Switch Current	1A Max
Power Supply	24V AC/DC

22MM Stainless Steel Illuminated 1 colour



Switch Voltage	24V AC/DC
Switch Current	1A Max
Color* Illuminated	24V AC/DC
Power Supply	24 AC/DC

22MM Stainless Steel Illuminated 2 colour



Switch Voltage	24V AC/DC
Switch Current	1A Max
Color* Illuminated	24V AC/DC
Power Supply	24 AC/DC

Piezo Switches

22mm Stainless Steel Flathead

Illuminated

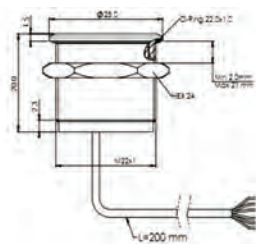


22MM Stainless Steel Illuminated



MPZI022/L

- Blue Illumination
- 1 colour
- 20 cm lead



Specification

MPZI022/L

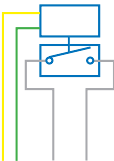
Type	Latching Toggle
Material	Stainless Steel (Aluminium upon request)
Power Supply	24V AC/DC
Switching voltage	48V AC peak/DC
Switch Resistance “ON“	<0.7Ω
Switch Resistance “OFF“	>1000MΩ
Capacitance	<90pF
Switching current	1A Max
LED Illumination	24V AC/DC
Actuating force, typically	3-5 N
Life cycle	>10 Million

Environmental specification

Sealing	IP68; IP69K
Operating temperature	-40°C to +85°C
Vibration Resistances	5-500Hz/9.4m
Shock resistance	75g (g-force)
RoHS	Compliant

Circuit Specification

22MM Stainless Steel Latching Toggle Illuminated



Power Supply	24V AC/DC
Switch Voltage	48V AC peak/ DC
Switch Current Max	1A Max
Colour* Illuminated	24V AC/DC

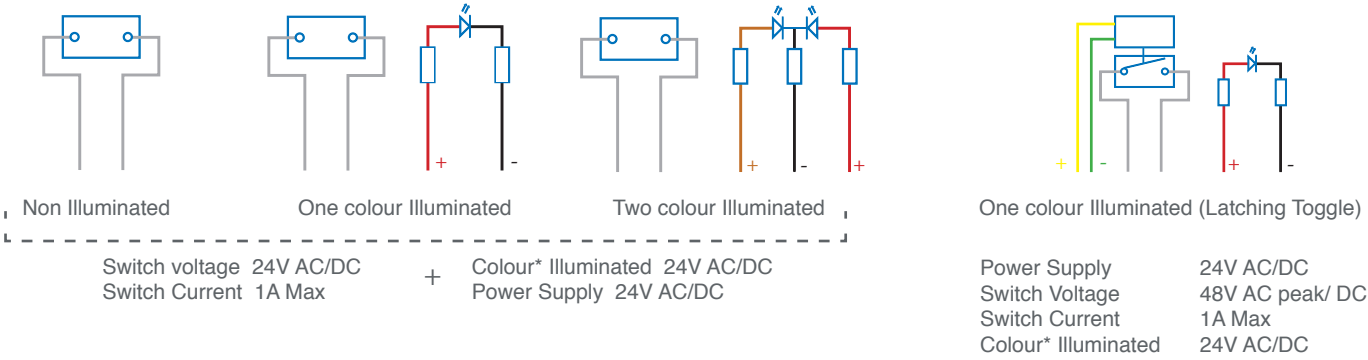
Part No System

MPZ	/	016	/	X	/	XX	/	X	/	X
Series		Body Diameter		Profile		Colour		Led Voltage		Type
MPZ - Non Illuminated MPZI- Illuminated		016 = 16mm 019 = 19mm 022 = 22mm		F = Flat Head G = Guided Profile		BL = Blue RD = Red GN = Green D1 = Red and green		24v		L = Latching Toggle (No Suffix= Momentary)

Examples:

MPZ022/F = Non Illuminated Piezo, 22mm, Flathead
MPZI022/F/RD/24 = Illuminated Piezo, 22mm, Flathead, Red Illumination, 24 volt
MPZI022/G/BL/24/L = Illuminated Piezo, 22mm, Guided Profile, Blue Illumination, 24 volt, Latching Toggle

Circuit Specifications



Other switches are available upon request*

Manufactured from **quality moulding** and metal components to ensure a **secure** and **reliable connection**, Bulgin's battery holder range caters for battery sizes AAA(R03), AA(R6), C(R14), D(R20) and PP3(6R61), accommodating 1, 2, 3 or 4 cells.



There's a choice of fixing styles including screw and flange panel fixing, PCB and base mounting versions.

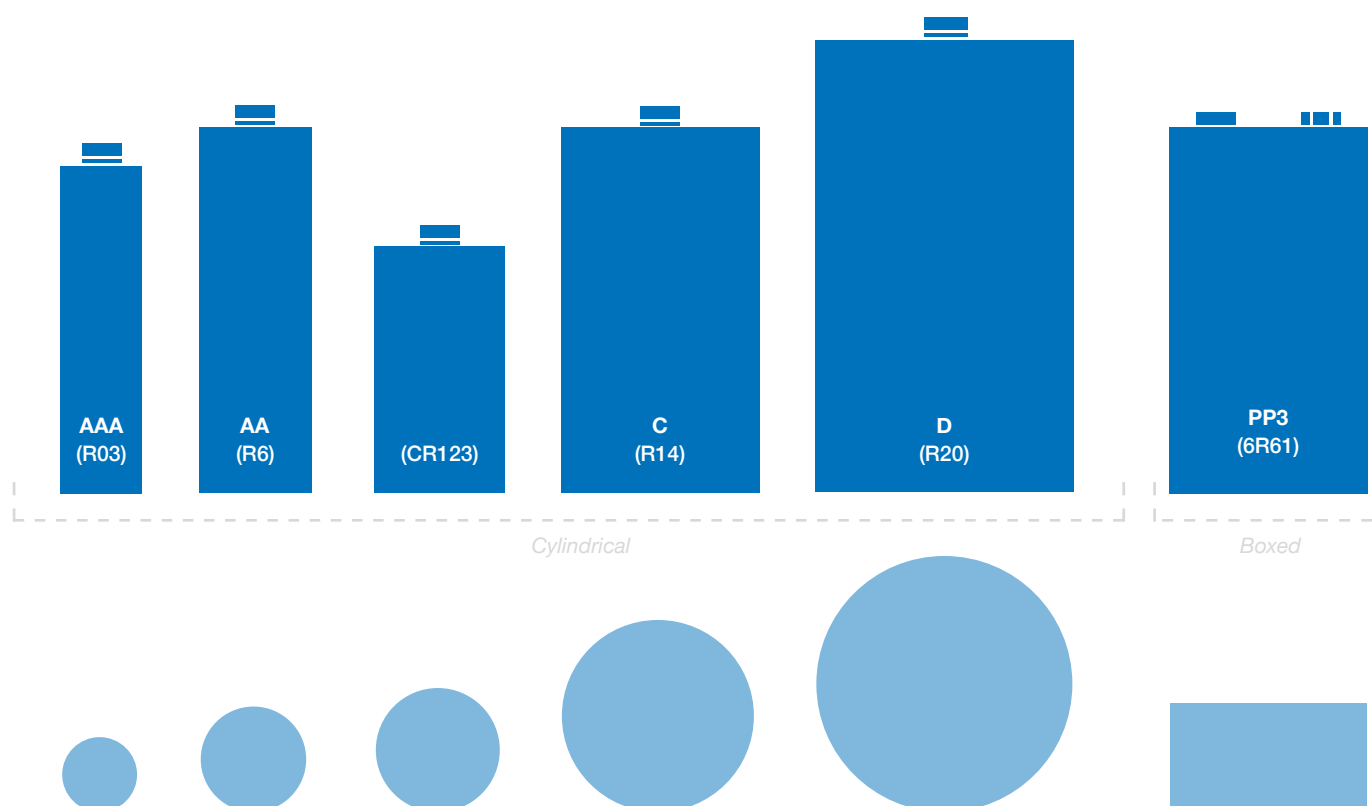
The panel mounting versions are now available in two styles; standard fixing and front panel sealed to IP67, extending the applications into harsher external environments where dust or water would inhibit equipment operation.

The open frame styles are designed to be either PCB or base mounted and most have an interlocking facility to join adjacent holders together.

Principle applications include portable equipment and memory back-up.

IP67 Sealed	123
Panel Mounting	124-125
PCB/Base Mounting	126-127

Battery size	Battery Dimensions	No. of Cells	Mounting	Part No.
AAA (R03)	Ø10.5 x 44.5	1	PCB/Base	BX0034
AA (R6)	Ø14.5 x 50.5	1	PCB/Base	BX0035
		1	Panel	BX0011/1
		2	Panel	BX0012/1
		3	Panel	BX0013/1
		4	Panel	BX0027
		1	Panel Sealed	BXS011/1
		2	Panel Sealed Panel	BXS012/1
		3	Sealed	BXS013/1
CR123	Ø17.0 x 34.5	1	PCB/Base	BX0123
C (R14)	Ø26.2 x 50	1	PCB/Base	BX0036
		1	Panel	BX0001/1
		2	Panel	BX0002/1
		3	Panel	BX0003/1
		1	Panel Sealed	BXS001/1
		2	Panel Sealed	BXS002/1
		3	Panel Sealed	BXS003/1
D (R20)	Ø34.2 x 61.5	1	PCB/Base	BX0037
		1	Panel	BX0016
		2	Panel	BX0017
		3	Panel	BX0018
		1	Panel Sealed	BXS016
		2	Panel Sealed	BXS017
		3	Panel Sealed	BXS018
PP3 (6R61)	W26.5 x D17.5 x H48.5	1	PCB/Base	BX0033
		1	Panel	BX0023
		2	Panel	BX0026



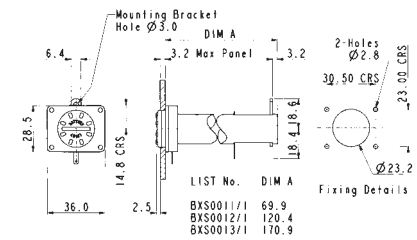
As batteries from different manufacturers may vary slightly in size, Dimensions & Drawings are approximate only.
 All Bulgin Battery Holders have polarity clearly marked.

AA SIZE BATTERY HOLDER



BXS011/1

- 1, 2 or 3 Cells
- Flanged Panel Mount
- Bayonet with finger/coin slot release
- Supplied with gasket and sealing grommets for screws

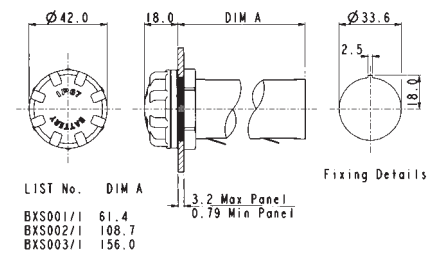


C SIZE BATTERY HOLDER



BXS001/1

- 1, 2 or 3 Cells
- Panel Mount
- Screw Cap/Hand release
- Supplied with gasket

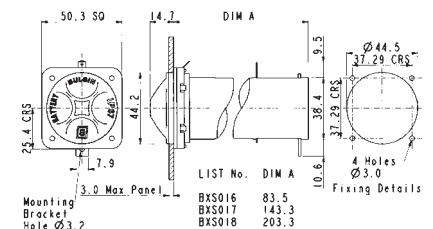


D SIZE BATTERY HOLDER



BXS016

- 1, 2 or 3 Cells
- Flanged Panel Mount
- Bayonet/finger release
- Supplied with flange gasket and sealing grommets for screws



Specification

BXS011/1, BXS012/1, BXS013/1

BXS001/1, BXS002/1, BXS003/1

BXS016, BXS017, BXS018

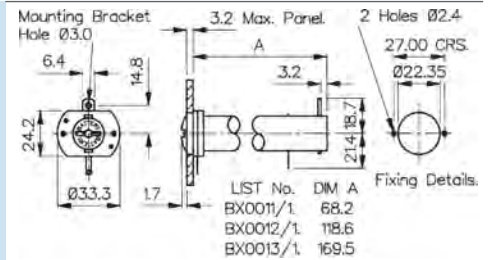
Battery/Cell Type:	AA (R6)	C (R14)	D (R20)
No. Cells:	BXS011/1 - 1 cell BXS012/1 - 2 cells BXS013/1 - 3 cells	BXS001/1 - 1 cell BXS002/1 - 2 cells BXS003/1 - 3 cells	BXS016 - 1 cell BXS017 - 2 cells BXS018 - 3 cells
Terminations:	2.8 series tabs/solder tags	2.8 series tabs/solder tags	4.8 series tabs/solder tags
Operating Temperature:	-30°C to +70°C	-30°C to +70°C	-30°C to +70°C
Mouldings:	Nylon Glass filled Polyester Polycarbonate	Nylon Glass filled Polyester	Nylon Glass filled Polyester
Flammability Rating:	UL94V-0	UL94V-0	UL94V-0
Contacts:	Brass, Tin Plated - rear contact Nickel Silver, clean - front contact and cap contact plate	Brass, Tin Plated - front and rear contacts Nickel Silver, clean - cap contact plate	Brass, Nickel Plated - front and rear contacts and cap contact plate
Features:	Bayonet cap with finger grip and coin slot Rear support bracket	Screw on cap with finger grip Recommended torque for panel ring 1.13-1.7Nm (10-15lbf.in)	Bayonet cap with finger grip Rear support bracket
Sealing (front of panel):	Protection classification IP67, EN60529:1992+A2:2013	Protection classification IP67, EN60529:1992+A2:2013	Protection classification IP67, EN60529:1992+A2:2013
Notes:	Recommend 2 & 3 cell versions are supported by rear bracket		Recommend 2 & 3 cell versions are supported by rear bracket
RoHS	Compliant	Compliant	Compliant

AA SIZE BATTERY HOLDER



BX0011/1

- 1, 2 or 3 Cells
- Flanged Panel Mount
- Bayonet/Screwdriver release

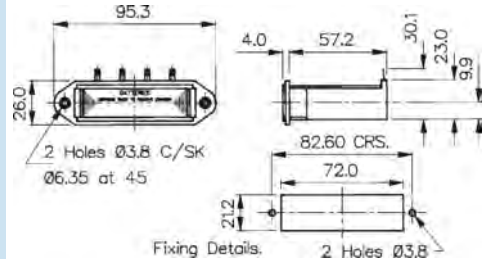


AA SIZE BATTERY HOLDER



BX0027

- 4 Cells
- Flanged Panel Mount
- Drawer function

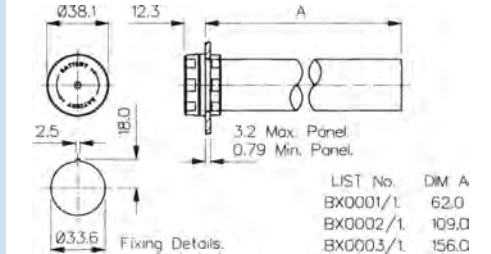


C SIZE BATTERY HOLDER



BX0001/1

- 1, 2 or 3 Cells
- Panel Mount
- Screw Cap/Hand release



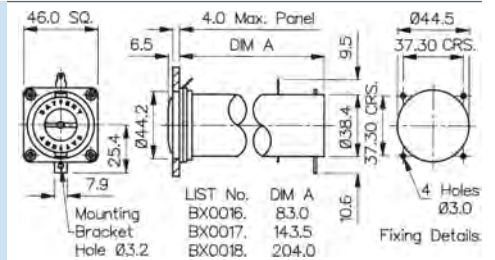
Specification	BX0011/1, BX0012/1, BX0013/1	BX0027	BX0001/1, BX0002/1, BX0003/1
Battery/Cell Type:	AA (R6)	AA (R6)	C (R14)
No. Cells:	BX0011/1 - 1 cell BX0012/1 - 2 cells BX0013/1 - 3 cells	4 cells	BX0001/1 - 1 cell BX0002/1 - 2 cells BX0003/1 - 3 cells
Terminations:	2.8 series tabs/solder tags	4 solder tags (can be wired in series or in pairs)	2.8 series tabs/solder tags
Operating Temperature:	-30°C to +70°C	-30°C to +70°C	-30°C to +70°C
Flammability Rating:	UL94V-0	UL94V-0	UL94V-0
Mouldings:	Glass Filled Nylon & Polyester	Glass Filled Nylon	Nylon & Glass Filled Nylon
Contacts:	Brass, Tin Plated Nickel Silver, clean	Phosphor Bronze, Tin Plated Nickel Silver, clean	Nickel Silver, clean Brass, Tin Plated
Features:	Bayonet cap with coin slot Rear support bracket	Removable loading/latching drawer	Screw on cap. Recommended torque for panel ring 1.13-1.7Nm (10-15lbf.in)
Notes:	Recommend 2 & 3 cell versions are supported by rear bracket		
RoHS	Compliant	Compliant	Compliant

D SIZE BATTERY HOLDER



BX0016

- 1, 2 or 3 Cells
- Flanged Panel Mount
- Bayonet/Screwdriver release

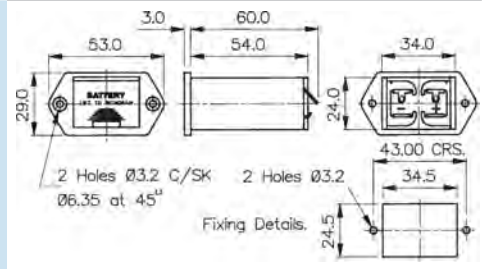


PP3 SIZE BATTERY HOLDER



BX0023

- 1 Cell
- Flanged Panel Mount
- Drawer function

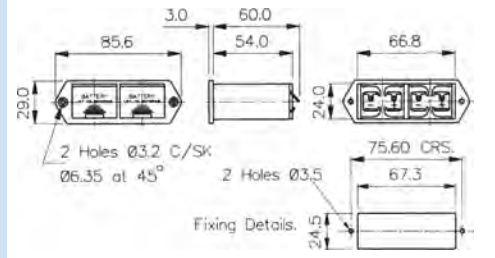


PP3 SIZE BATTERY HOLDER



BX0026

- 2 Cell
- Panel Mount
- Screw Cap/Hand release



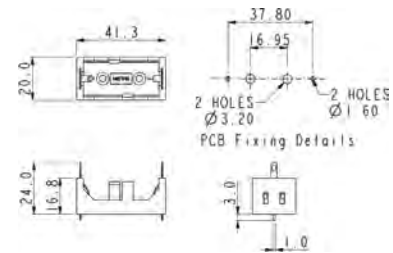
Specification	BXS011/1, BXS012/1, BXS013/1	BX0023	BX0026
Battery/Cell Type:	D (R20)	PP3 (6R61)	PP3 (6R61)
No. Cells:	BX0016 - 1 cell BX0017 - 2 cells BX0018 - 3 cells	1 cell	2 cells
Terminations:	4.8 series tabs/solder tags	Solder tag	Solder tags
Operating Temperature:	-30°C to +70°C	-30°C to +70°C	-30°C to +70°C
Flammability Rating:	UL94V-0	UL94V-0	UL94V-0
Mouldings:	Nylon & Polycarbonate	Glass Filled Nylon	Glass Filled Nylon
Contacts:	Brass, Nickel Plated	Phosphor Bronze, Tin Plated	Phosphor Bronze, Tin Plated
Features:	Bayonet cap with coin slot Rear support bracket	Removable loading drawer	Removable loading drawer
Notes:	Recommend 2 & 3 cell versions are supported by rear bracket		
RoHS	Compliant	Compliant	Compliant

CR123 SIZE BATTERY HOLDER



BX0123

- 1 Cell
- PC/Base Mount
- Open style

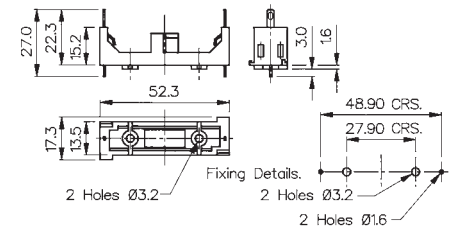


AAA SIZE BATTERY HOLDER



BX0034

- 1 Cell
- PC/Base Mount
- Open style

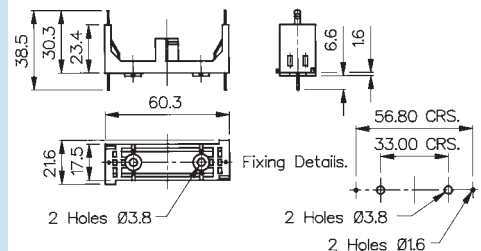


AA SIZE BATTERY HOLDER



BX0035

- 1 Cell
- PC/Base Mount
- Open style



Specification

BX0123

BX0034

BX0035

Battery/Cell Type:

CR123

AAA (R03)

AA (R6)

No. Cells:

1 cell

1 cell

1 cell

Terminations:

Dual connections, P.C. spills & 2.8 series tabs/solder tags. (P.C. spills may be removed if required)

Dual connections, P.C. spills & 2.8 series tabs/solder tags. (P.C. spills may be removed if required)

Dual connections, P.C. spills & 2.8 series tabs/solder tags. (P.C. spills may be removed if required)

Operating Temperature:

-30°C to +70°C

-30°C to +70°C

-30°C to +70°C

Flammability Rating:

UL94V-0

UL94V-0

UL94V-0

Mouldings:

Glass Filled Nylon

Glass Filled Nylon

Nylon & Glass Filled Nylon

Contacts:

Nickel Silver, clean

Nickel Silver, clean

Nickel Silver, clean

Features:

Interlocking for multiple assemblies

Interlocking for multiple assemblies

RoHS

Compliant

Compliant

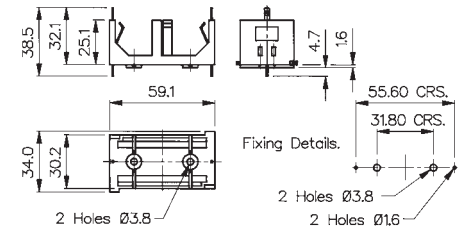
Compliant

C SIZE BATTERY HOLDER



BX0036

- 1 Cell
- PC/Base Mount
- Open style

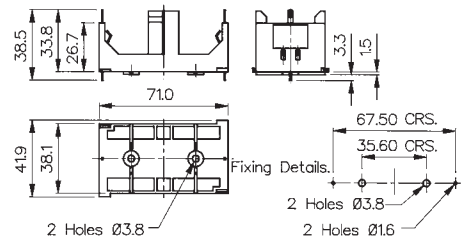


D SIZE BATTERY HOLDER



BX0037

- 1 Cell
- PC/Base Mount
- Open style

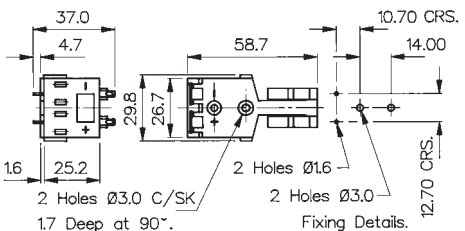


PP3 SIZE BATTERY HOLDER



BX0033

- 1 Cell
- PC/Base Mount
- Open style



Specification

BX0036

BX0037

BX0033

Battery/Cell Type:	C (R14)	D (R20)	PP3 (6R61)
No. Cells:	1 cell	1 cell	1 cell
Terminations:	Dual connections, P.C. spills & 2.8 series tabs/solder tags. (P.C. spills may be removed if required)	Dual connections, P.C. spills & 2.8 series tabs/solder tags. (P.C. spills may be removed if required)	Dual connections, P.C. spills & 2.8 series tabs/solder tags. (P.C. spills may be removed if required)
Operating Temperature:	-30°C to +70°C	-30°C to +70°C	-30°C to +70°C
Flammability Rating:	UL94V-0	UL94V-0	UL94V-0
Mouldings:	Glass Filled Nylon	Glass Filled Nylon	Nylon & Glass Filled Nylon
Contacts:	Nickel Silver, clean	Nickel Silver, clean	Nickel Silver, clean
Features:	Interlocking for multiple assemblies	Interlocking for multiple assemblies	
RoHS	Compliant	Compliant	Compliant

A full range of **quality** mains rated **inlets, outlets** and **connectors** conforming to **IEC** and EN 60320 specifications carrying **UL, CSA, VDE** and other approvals.

With electrical ratings up to 20A, 250V (UL) these connector ranges offer solutions to most mains powered equipment and cable applications.

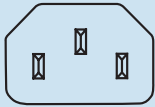
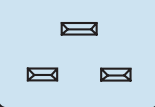
The combinations of mounting styles and terminations include: flange fixing, snap to panel and PCB mounting versions together with 2.8/ solder tabs, 4.8 and 6.3 fast on tabs, screw terminal and PC spill versions.

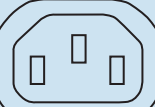
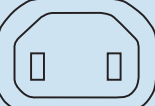
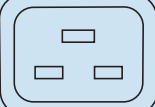
Completing the range are insulating boots, retaining and safety covers

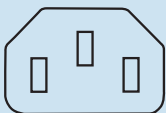
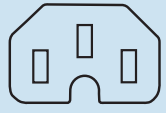
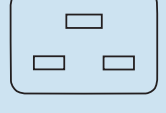
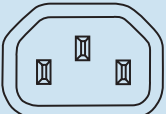
In addition to the standard black moulding, most styles are also available in either white or grey and special colours to match OEM equipment can also be supplied. (Subject to product approval requirements)



Inlets and Outlet Connectors	129-152
Distribution Units	153-157
Polysnap Connection Modules	158-180
EMI Mains Filters	181-189

IEC60 320-1	Sheet No:	No Pins	Current Rating	Flange Fixing	Snap fit	Fused Flange	Fused Snap fit	Filtered	Fuse Filtered
	C14	3	10A, 250V a.c.	PX0579 PX0580 PX0580/PC PX0580/PC/12132 PX0580/PC/7 PX0580/PC/7LC	PX0575 PX0575/PC	PF0001 PF0001/PC PF0002 PF0030 PF0030/PC	PF0011 PF0011/PC	PS00 PS01	PS20 PS21 PS25 PS26
	C16	3	10A, 250V a.c.	PX0590	PX0595				
	C18	2	10A, 250V a.c.	PX0690	PX0691 PX0691/PC	PF0006 PF0007	PF0016		
	C20	3	3 16A, 250V a.c.	PX0596	PX0598				

IEC60 320-2-2	Sheet No:	No Pins	Current Rating	Flange Fixing	Snap fit	Fused Flange	Fused Snap fit	Filtered	Fuse Filtered
	F	3	10A, 250V a.c.	PX0675 PX0675/PC PX0675/PC/12599 PX0793 (Shuttered) PX0793/1(Shuttered)	PX0695 PX0695/PC PX0783 (Shuttered) PX0716 PX0717 PX0718				
	H	2	10A, 250V a.c.	PX0705	PX0725				
	J	3	16A, 250V a.c.	PX0591	PX0592				

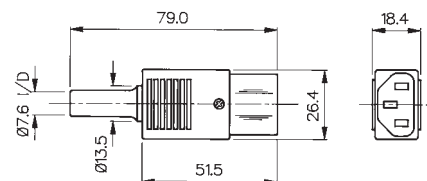
IEC60 320-1	Sheet No:	No Pins	Current Rating	Rewirable	Side Entry Rewirable
	C13	3	10A, 250V a.c.	PX0587 PX0588	PX0587/SE
	C15	3	10A, 250V a.c.	PX0597	
	C19	3	16A, 250V a.c.	PX0599	
IEC60 320-2-2	Sheet No:	No Pins	Current Rating	Rewirable	Side Entry Rewirable
	E	3	10A, 250V a.c.	PX0686	PX0685 PX0686/SE

Straight Female Connector



PX0587

- Cable Mounting
- Rewirable
- Screw Terminals
- 10A, 250V a.c.

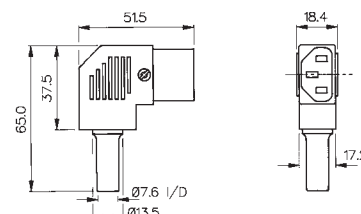


Side Entry Female Connector



PX0587/SE

- Cable Mounting
- Rewirable
- Screw Terminals
- 10A, 250V a.c.

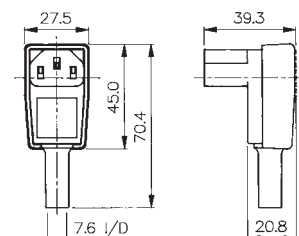


Angled Female Connector



PX0588

- Cable Mounting
- Rewirable
- Screw Terminals
- 10A, 250V a.c.



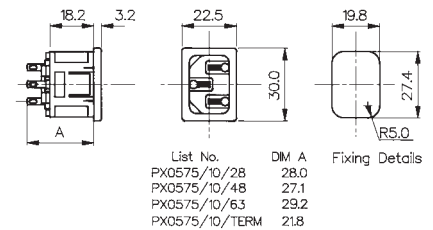
Specifications	PX0587/Col	PX0587/SE/Col	PX0588
Terminations:	Screw Terminals	Screw Terminals	Screw Terminals
Colours:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)	-
Max. Rating:	10A, 250V a.c.	10A, 250V a.c.	10A, 250V a.c.
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Insulation Resistance:	>10 ³ MΩ	>10 ³ MΩ	>10 ³ MΩ
A.C. Breakdown:	Pole-Pole 4.5kV. (Poles-Accessible) Parts 4kV	Pole-Pole 4.5kV. (Poles-Accessible) Parts 4kV	Pole-Pole 5kV. (Poles-Accessible) Parts 3.5kV
Operating Temp.	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Withdrawal Force:	10N (Min.) 50N (Max.)	10N (Min.) 50N (Max.)	10N (Min.) 50N (Max.)
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts	Brass, Clean	Brass, Clean	Brass, Clean
Approvals:			
Accessories / Notes:	VDE and ENEC approval for black and white versions only.	VDE and ENEC approval for black and white versions only.	
Mating Inlets:	PX0575, PX0579, PX0580, PF0001, PF0011, PF0030, PF0033	PX0575, PX0579, PX0580, PF0001, PF0011, PF0030, PF0033	PX0575, PX0579, PX0580, PF0001, PF0011, PF0030, PF0033
RoHS	Compliant	Compliant	Compliant

Snap Fit to Panel Inlet



PX0575/10/28

- Fits Panel Sizes 1, 1.5, 2.0 or 3.0mm
- 2.8, 4.8, 6.3mm Tabs or Screw Terminals
- 10A, 250V a.c.
(15A, 250V a.c. UL & CSA)

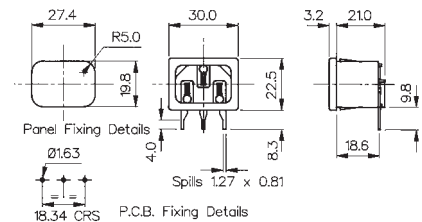


PC Snap Fit to Panel Inlet



PX0575/10/PC

- Fits Panel Sizes 1, 1.5, 2.0 or 3.0mm
- PC Spills
- 10A, 250V a.c.
(15A, 250V a.c. UL & CSA)



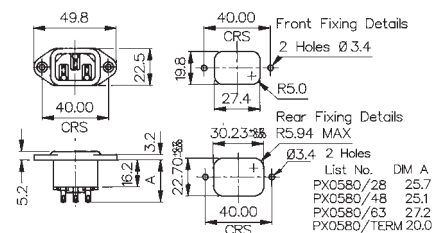
Specifications	PX0575/Panel/Term/Col	PX0575/Panel/PC/Col
Fixing(Panel):	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)
Terminations:	/28 (2.8mm solder), /48 (4.8mm tab)	P.C. Spills
Colours:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V a.c. (UL & CSA 15A, 250V a.c.)	10A, 250V a.c. (UL & CSA 15A, 250V a.c.)
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10 ⁹ MΩ	>10 ⁹ MΩ
A.C. Breakdown:	Pole-Pole 5kV. Poles-Panel 5.4kV	Pole-Pole 5kV. Poles-Panel 5.4kV
Operating Temp. Range:	-40°C to +70°C	-40°C to +70°C
Max. Pin Temp.:	+70°C	+70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass: Pins, Nickel Plated. Tabs, Tin Plated, Screw Terms, Nickel Plated	Brass: Pins, Nickel Plated. Spills, Tin Plated
Approvals:		
Accessories / Notes:	P.No. 11328 (See Page 152) VDE and ENEC approval for black versions only.	Standard without cover. With cover add /C to P.No. PX0587, PX0587/SE, PX0588 VDE and ENEC approval for black versions only.
Mating Connectors:	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588
RoHS	Compliant	Compliant

Flange Mount Inlet



PX0580/28

- 2.8, 4.8, 6.3mm Tabs or Screw Terminals
- 10A, 250V a.c.
(15A, 250V a.c. UL & CSA)

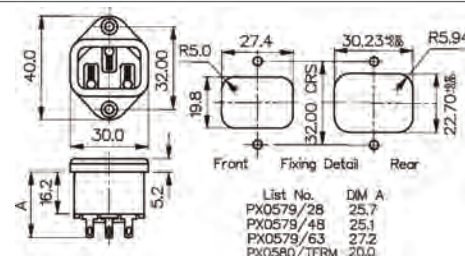


Vertical Flange Mount Inlet



PX0579/28

- 2.8, 4.8, 6.3mm Tabs or Screw Terminals
- 10A, 250V a.c.
(15A, 250V a.c. UL & CSA)



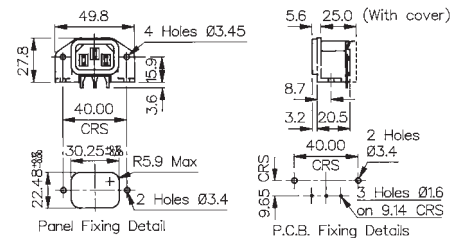
Specifications	PX0580/Term/Col	PX0579/Term/Col
Fixing:	Flange	Flange
Terminations:	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab), /TERM (screw)	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)
Colours:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V a.c. (UL & CSA 15A, 250V a.c.)	10A, 250V a.c. (UL & CSA 15A, 250V a.c.)
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10 ³ MΩ	>10 ³ MΩ
A.C. Breakdown:	Pole-Pole 5kV, Poles-Panel 10kV	Pole-Pole 5kV, Poles-Panel 10kV
Operating Temp.	-40°C to +70°C	-40°C to +70°C
Max. Pin Temp.:	+70°C	+70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass: Pins, Nickel Plated. Tabs, Tin Plated, Screw Terms, Nickel Plated	Brass: Pins, Nickel Plated. Tabs, Tin Plated
Approvals:		 pending
Accessories / Notes:	P.No. 11328, KT0006 (PX0587 only) (See Pages 150 and 152) VDE and ENEC approval for black versions only.	P.No. 11328 (See Page 152)
Mating Connectors:	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588
RoHS	Compliant	Compliant

PC Flange Rear Mount Inlet



PX0580/PC

- With or Without Rear Cover
- PC Spills
- 10A, 250V a.c.
(15A, 250V a.c. UL & CSA)

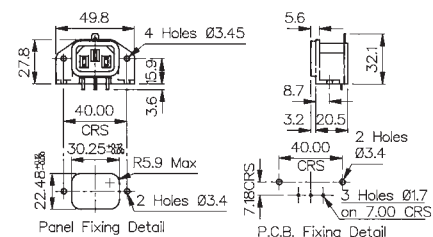


PC Flange Rear Mount Inlet



PX0580/PC/7

- With or Without Cover
- PC Spills
- 4.8mm Top Tab (earth)
- 10A, 250V a.c.
(15A, 250V a.c. UL & CSA)



Specifications	PX0580/PC/Col	PX0580/PC/7/Col
Fixing:	P.C.B./Flange	P.C.B./Flange
Terminations:	P.C. Spills	P.C. Spills
Colours:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V a.c. (UL & CSA 15A, 250V a.c.)	10A, 250V a.c. (UL & CSA 15A, 250V a.c.)
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10 ³ MΩ	>10 ³ MΩ
A.C. Breakdown:	Pole-Pole 5.4kV. Poles-Panel 10kV	Pole-Pole 5.4kV. Poles-Panel 10kV
Operating Temp. Range:	-40°C to +70°C	-40°C to +70°C
Max. Pin Temp :	+70°C	+70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass: Pins, Nickel Plated. Spills, Tin Plated	Brass: Pins, Nickel Plated. Spills, Tin Plated
Approvals:		
Accessories / Notes:	Standard without cover. With cover add /12132 to P.No. VDE approvals for black version only	Standard without cover. With cover add /12132 to P.No. VDE approvals for black version only
Mating Connectors:	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588
RoHS	Compliant	Compliant

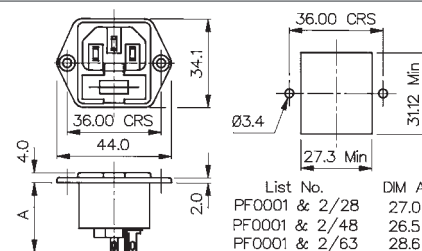
Flanged Mount Fused Inlet



PF0001/28

PF0002/28

- Single Fuse 5 x 20mm
- Spare Fuse Facility
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V a.c.
- Fuse Contacts Isolated (PF0002)

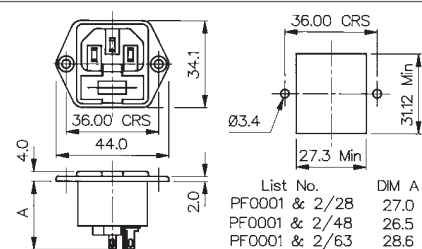


PC Flanged Mount Fused Inlet



PF0001/PC

- Single Fuse 5 x 20mm
- Spare Fuse Facility
- PC Spills - Horizontal
- 10A, 250V a.c.



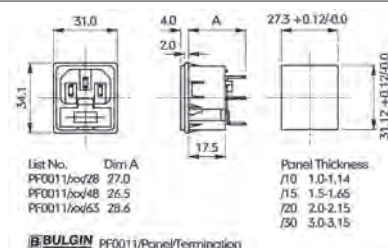
Specifications	PF0001/Term/Col	PF0001/PC/Col	PF0002/Term/Col
Fixing(Panel):	Flange	P.C.B./Flange	Flange
Terminations:	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)	P.C. Spills	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)
Colours:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V a.c.	10A, 250V a.c.	10A, 250V a.c.
Max. Fuse Rating:	2.5W/10A, 250V a.c.	2.5W/10A, 250V a.c.	2.5W/10A, 250V a.c.
Contact Resistance:	<10mΩ (<15mΩ including Fuseholder)	<10mΩ (<15mΩ including Fuseholder)	<10mΩ
Insulation Resistance:	>10 ³ MΩ	>10 ³ MΩ	>10 ³ MΩ
A.C. Breakdown:	Pole-Pole 5.5kV. Poles-Panel 4kV	Pole-Pole 5.5kV. Poles-Panel 4kV	Pole-Pole 5.5kV. Poles-Panel 4kV
Operating Temp.	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Max. Pin Temp.:	+70°C	+70°C	+70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass: Pins, Nickel Plated. Tabs, Tin Plated	Brass: Pins, Nickel Plated. Tabs, Tin Plated	Brass: Pins, Nickel Plated. Tabs, Tin Plated
Approvals:			
Accessories / Notes:	P.No. 11987, KT0009 See Pages 150 & 152) VDE and ENEC approval for black versions only.	KT0009 (front of panel mounting only) (See Page 150) VDE and ENEC approval for black versions only.	P.No. 11987, KT0009 (See Pages 150 & 152) (Note: Fuse contact isolated) VDE and ENEC approval for black versions only.
Mating Connectors:	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588
RoHS	Compliant	Compliant	Compliant

Snap Fit to Panel Fused Inlet



PF0011/10/28

- Single Fuse 5 x 20mm
- Spare Fuse Facility
- Panel Sizes 1, 1.5, 2.0 or 3.0mm
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V a.c.

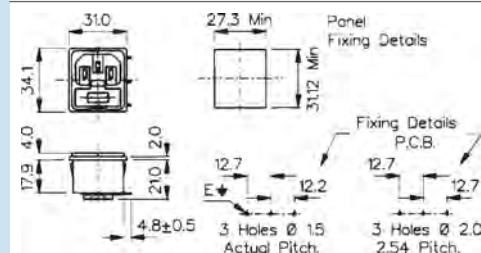


PC Snap Fit to Panel Fused Inlet



PF0011/10/PC

- Single Fuse 5 x 20mm
- Spare Fuse Facility
- Panel Sizes 1, 1.5, 2.0 or 3.0mm
- PC Spills
- 10A, 250V a.c.



Specifications	PF0011/Panel/Term/Col	PF0011/Panel/PC/Col
Fixing:	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)
Terminations:	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)	P.C. Spills
Colours:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V a.c.	10A, 250V a.c.
Max. Fuse Rating	2.5W/10A, 250V a.c	2.5W/10A, 250V a.c
Contact Resistance:	<10mΩ (<15mΩ including Fuseholder)	<10mΩ (<15mΩ including Fuseholder)
Insulation Resistance:	>10 ⁹ MΩ	>10 ⁹ MΩ
A.C. Breakdown:	Pole-Pole 5.5kV. Poles-Panel 4kV	Pole-Pole 5.5kV. Poles-Panel 4kV
Operating Temp.	-40°C to +70°C	-40°C to +70°C
Max. Pin Temp.:	+70°C	+70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass: Pins, Nickel Plated. Tabs, Tin Plated	Brass: Pins, Nickel Plated. Spills, Tin Plated
Approvals:		
Accessories / Notes:	P.No. 11987 (See Page 152) VDE and ENEC approval for black versions only.	VDE and ENEC approval for black versions only.
Mating Connectors:	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588
RoHS	Compliant	Compliant



PF0030/28

-
- Technical drawings of the PF0030/28, PF0030/48, and PF0030/63 fasteners. The drawings include top, side, and end views with dimensions in millimeters.
- Top View Dimensions:**
- Overall width: 44.0
 - Inner width: 36.00
 - CRS (Stainless Steel)
 - Height: 34.1
- Side View Dimensions:**
- Shank diameter: 2.0
 - Shank length: 4.0
 - Overall length: DIM A
- End View Dimensions:**
- Overall width: 36.00
 - CRS (Stainless Steel)
 - Central hole diameter: Ø3.4
 - Min. (Minimum) distance from edge to hole: 31.1
 - Min. (Minimum) distance from hole to edge: 27.3
- Table:**
- | List No. | DIM A |
|------------|-------|
| PF0030/28. | 38.0 |
| PF0030/48. | 38.0 |
| PF0030/63. | 40.0 |
- Fixing Details.**

PC Flanged Mount Fused Inlet



PF0030/PC

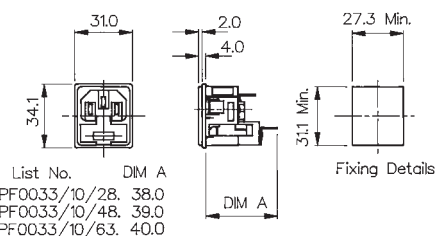
-

Snap Fit to Panel Fused Inlet

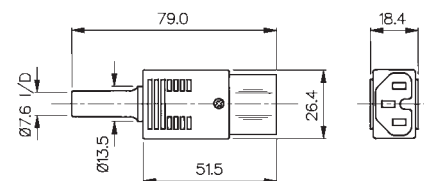


PF0033/10/28

- Twin Fused 5 x 20mm
- Fits Panel Sizes 1.0, 1.5, 2.0 or 3.0mm
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V a.c.

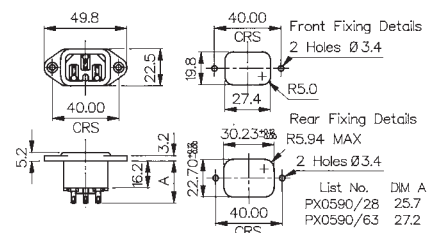
137 IEC Connectors

- Cable Mounting
- Hot Condition
- Mates with PX0590 and PX0595
- Screw Terminals
- 10A, 250V a.c.



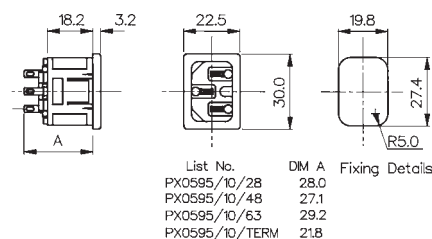
PX0590/28

- Hot Condition
- 2.8 or 6.3mm Tabs
- 10A, 250V a.c.
(15A, 250V a.c. UL & CSA)



PX0595/10/28

- ⬢ Hot Condition
- ⬢ Panel Sizes 1, 1.5, 2.0 or 3.0mm
- ⬢ 2.8, 4.8, 6.3mm Tabs or Screw Terminals
- ⬢ 10A, 250V a.c. (15A, 250V a.c. UL & CSA)

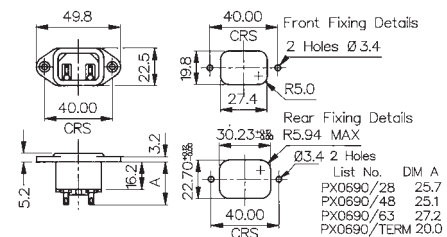
RoHS

Flanged Mount Inlet



PX0690/28

- Two Pin Class II (No Earth Pin)
- 2.8, 4.8, 6.3mm Tabs or Screw Terminals
- 10A, 250V a.c. (15A, 250V a.c. UL & CSA)

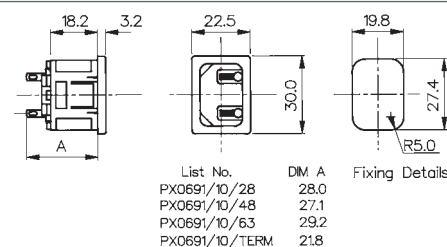


Snap Fit to Panel Inlet



PX0691/10/28

- Two Pin Class II (No Earth Pin)
- Panel Sizes 1, 1.5, 2.0 or 3.0mm
- 2.8, 4.8, 6.3mm Tabs or Screw Terminals
- 10A, 250V a.c. (15A, 250V a.c. UL & CSA)

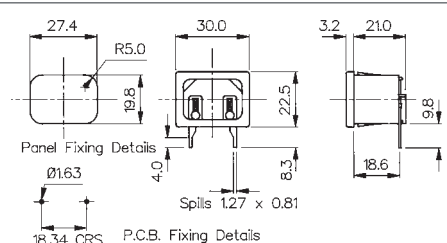


PC Snap Fit to Panel Inlet



PX0691/10/PC

- Two Pin Class II (No Earth Pin)
- Panel Sizes 1, 1.5, 2.0 or 3.0mm
- PC Spills
- 10A, 250V a.c. (15A, 250V a.c. UL & CSA)



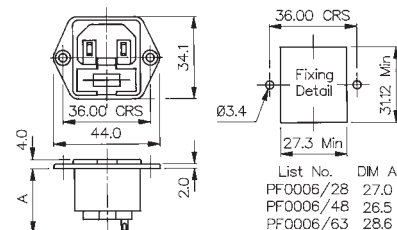
Specifications	PX0690/Term/Col	PX0691/Panel/Term/Col	PX0691/Panel/PC/Col
Fixing(Panel):	Flange	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)
Terminations:	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab), /TERM (screw)	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab), /TERM (screw)	P.C. Spills
Colours:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V a.c. (UL & CSA 15A, 250V a.c.)	10A, 250V a.c. (UL & CSA 15A, 250V a.c.)	10A, 250V a.c. (UL & CSA 15A, 250V a.c.)
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Insulation Resistance:	>10 ³ MΩ	>10 ³ MΩ	>10 ³ MΩ
A.C. Breakdown:	Pole-Pole 5kV. Poles-Panel 10kV	Pole-Pole 5kV. Poles-Panel 5.4kV	Pole-Pole 5kV. Poles-Panel 5.4kV
Operating Temp. Max. Pin Temp.:	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass: Pins, Nickel Plated. Tabs, Tin Plated, Screw Terms, Nickel Plated	Brass: Pins, Nickel Plated. Tabs, Tin Plated, Screw Terms, Nickel Plated	Brass: Pins, Nickel Plated. Spills, Tin Plated
Approvals:			
Accessories / Notes:	P.No. 11328 (See Page 152) VDE and ENEC approval for black versions only.	P.No. 11328 (See Page 152) VDE and ENEC approval for black versions only.	Standard without cover. With cover add /C to P.No. VDE and ENEC approval for black versions only.
Mating Connectors:	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588
RoHS	Compliant	Compliant	Compliant

Flanged Mount Fused Inlet



PF0006/28

- Single Fuse 5 x 20mm
- Two Pin Class II (No Earth Pin)
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V a.c.

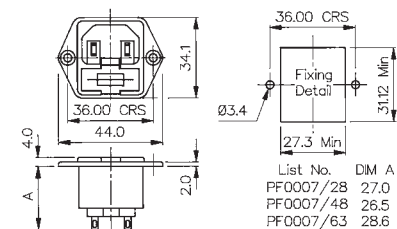


Flanged Mount Fused Inlet



PF0007/28

- Single Fuse 5 x 20mm (Fuse Contacts Isolated)
- Two Pin Class II (No Earth Pin)
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V a.c.

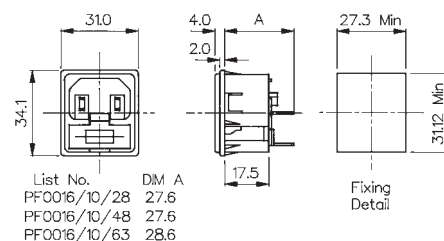


Snap Fit to Panel Fused Inlet



PF0016/10/28

- Single Fuse 5 x 20mm
- Two Pin Class II (No Earth Pin)
- Fits Panel Sizes 1.0, 1.5, 2.0 or 3.0mm
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V a.c.



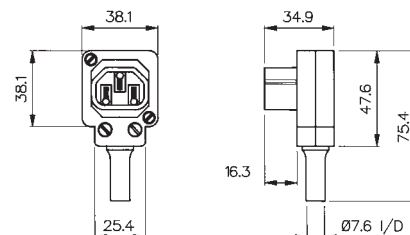
Specifications	PF0006/Term/Col	PF0007/Term/Col	PF0016/Panel/Term/Col
Fixing(Panel):	Flange	Flange	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)
Terminations:	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)
Colours:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V a.c.	10A, 250V a.c.	10A, 250V a.c.
Contact Resistance:	<10mΩ (<15mΩ including Fuseholder)	<10mΩ	<10mΩ (<15mΩ including Fuseholder)
Insulation Resistance:	>10 ⁹ MΩ	>10 ⁹ MΩ	>10 ⁹ MΩ
A.C. Breakdown:	Pole-Pole 5.5kV. Poles-Panel 4kV	Pole-Pole 5.5kV. Poles-Panel 4kV	Pole-Pole 5.5kV. Poles-Panel 4kV
Operating Temp.	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Max. Pin Temp.:	+70°C	+70°C	+70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass: Pins, Nickel Plated. Tabs, Tin Plated	Brass: Pins, Nickel Plated. Tabs, Tin Plated	Brass: Pins, Nickel Plated. Tabs, Tin Plated
Approvals:			
Accessories / Notes:	P.No. 11987 (See Page 152) VDE and ENEC approval for black versions only.	P.No. 11987 (See Page 152) (Note: Fuse contacts isolated) VDE and ENEC approval for black versions only.	P.No. 11987 (See Page 152) VDE and ENEC approval for black versions only.
Mating Connectors:	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588
RoHS	Compliant	Compliant	Compliant

Angled Male Connector



PX0685

- Cable Mounting
- Four Position Cable Entry
- Rewirable
- Screw Terminals
- 10A, 250V a.c.

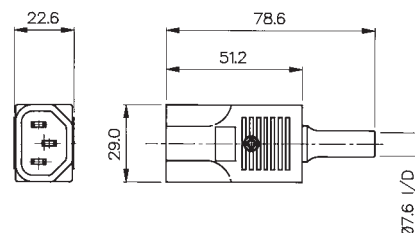


Straight Male Connector



PX0686

- Cable Mounting
- Rewirable
- Screw Terminals
- 10A, 250V a.c.

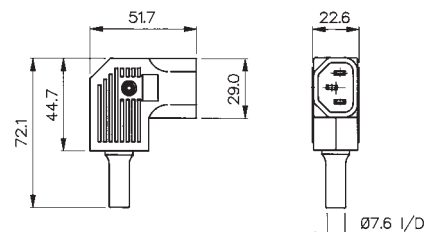


Side Entry Male Connector



PX0686/SE

- Cable Mounting
- Rewirable
- Screw Terminals
- 10A, 250V a.c.



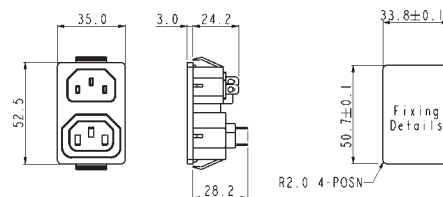
Specifications	PX0685/Col	PX0686/Col	PX0686/SE/Col
Fixing(Panel):	Screw Terminals	Screw Terminals	Screw Terminals
Max. Rating:	10A, 250V a.c.	10A, 250V a.c.	10A, 250V a.c.
Colours:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Insulation Resistance:	>10 ⁴ MΩ	>10 ⁴ MΩ	>10 ⁴ MΩ
A.C. Breakdown:	Pole-Pole 5.2kV. Poles-Accessible Parts 6kV	Pole-Pole 5kV. Poles-Accessible Parts 5kV	Pole-Pole 5kV. Poles-Accessible Parts 5kV
Operating Temp.	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Withdrawal Force:	10N (Min.) 50N (Max.)	10N (Min.) 50N (Max.)	10N (Min.) 50N (Max.)
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass, Nickel Plated.	Brass, Nickel Plated.	Brass, Nickel Plated.
Approvals:			
Accessories / Notes:	Unique octagon module allows choice of 4 cable positions	VDE and ENEC approval for black and white versions only.	VDE and ENEC approval for black and white versions only.
Mating Outlets:	PX0675, PX0695, PX0578, PX0783, PX0793, PX0793/1	PX0675, PX0695, PX0578, PX0783, PX0793, PX0793/1, PX0716, PX0717 & PX0718	PX0675, PX0695, PX0578, PX0783, PX0793, PX0793/1, PX0716, PX0717 & PX0718
RoHS	Compliant	Compliant	Compliant

Snap Fit to Panel Inlet/ Outlet



PX0716/48

- Inlet/Outlet combination
- Panel Size 1.2mm
- 4.8mm tabs
- 10A, 250V a.c.
(15A, 250V a.c. UL & CSA)

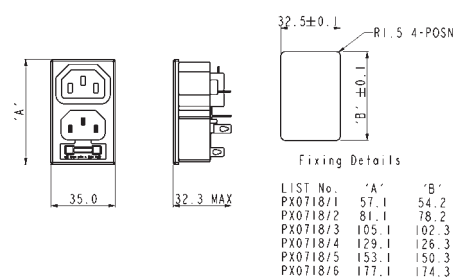


Snap Fit to Fused Inlet/ Outlet



PX0718/x/xx/ST

- Fused Inlet/Outlet combination
- 1-6 outlet versions
- Panel Size 1.5mm
- Terminals:
inlet: 4.8mm tabs
outlet: solder tags
- 10A, 250V a.c.
(15A, 250V a.c. UL)
- All outlet terminals linked,
common earth throughout.



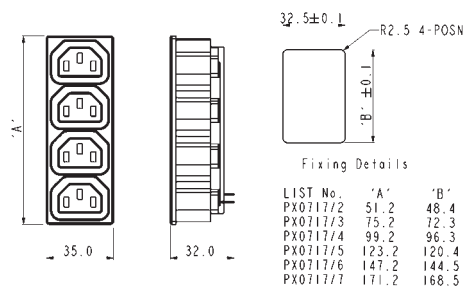
Specifications	PX0716/Termination	PX0718/x/15/Termination
Fixing:	Snap fit 1.2mm accommodation	Snap fit 1.5mm accommodation
Terminations:	/48 (4.8mm tab)	/ST (outlet solder tag, inlet 4.8mm tab)
Max. Rating:	10A, 250V a.c. (UL 15A, 125V a.c.)	10A, 250V a.c. (UL 15A, 250V a.c.)
Insulation Resistance:	>100MΩ (500V d.c., 1 min.)	>100MΩ (500V d.c., 1 min.)
Dielectric Strength:	2kV (50Hz, 1 min.)	2kV (50Hz, 1 min.)
Operating Temp.	-20°C to +70°C	-20°C to +70°C
Max. Pin Temp:	+70°C	+70°C
Mouldings:	Nylon 66, Flammability Rating UL94V-0	Glass filled Thermoplastic, UL94V-0
Contacts:	Brass, Tin Plated	Brass, Tin Plated
Approvals:		
Accessories / Notes:		
Mating With:	PX0587, PX0587/SE, PX0588, PX0686, PX0686/SE	PX0587, PX0587/SE, PX0588, PX0686, PX0686/SE
RoHS	Compliant	Compliant

Snap Fit to Panel Outlet



PX0717/x/xx/ST

- Snap Fit to Panel
- Panel Size 1.5mm
- Solder Tabs
- 10A, 250V a.c.
(15A, 250V a.c. UL)
- All Terminals Linked

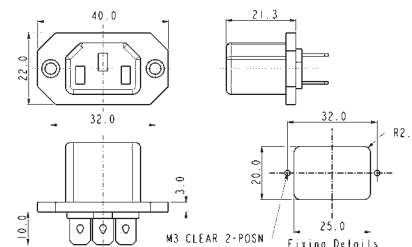


Flange Mount Outlet



PX0578/63

- Front of Panel Mount
- 6.3mm tabs
- 10A, 250V a.c.
(15A, 250V a.c. UL)



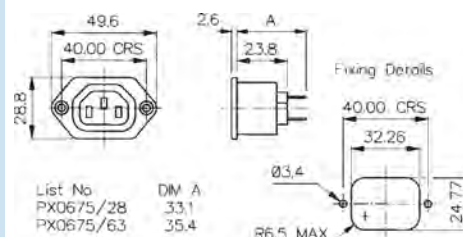
Specifications	PX0717/x/15/Termination	PX0578/Termination
Fixing:	Snap fit 1.5mm accommodation	Flange
Terminations:	/ST (solder)	/63 (6.3mm tab)
Max. Rating:	10A, 250V a.c. (UL 15A, 250v a.c.)	10A, 250V a.c. (UL 15A, 250v a.c.)
Insulation Resistance:	>100MΩ (500V d.c., 1 min.)	>100MΩ (500V d.c., 1 min.)
Dielectric Strength:	2kV (50Hz, 1 min.)	2kV (50Hz, 1 min.)
Operating Temp.	-20°C to +70°C	-20°C to +70°C
Max. Pin Temp:		
Mouldings:	Glass filled Thermoplastic, UL94V-0	Glass filled Thermoplastic, UL94V-0
Contacts:	Brass, Tin plated	Brass, Tin plated
Approvals:		
Accessories / Notes:		
Mating With:	PX0686, PX0686/SE	PX0686, PX0686/SE
RoHS	Compliant	Compliant

Flange Mount Outlet



PX0675/28

- 2.8mm or 6.3mm Tabs
- 10A, 250V a.c.
(15A, 250V a.c. UL & CSA).

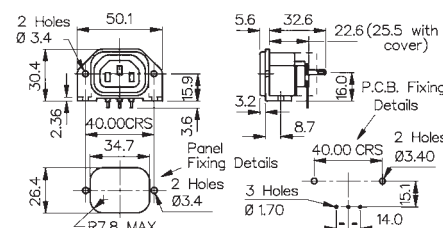


PC Flange Rear Mount Outlet



PX0675/PC

- PC Spills
- 10A, 250V a.c.
(15A, 250V a.c. UL & CSA)



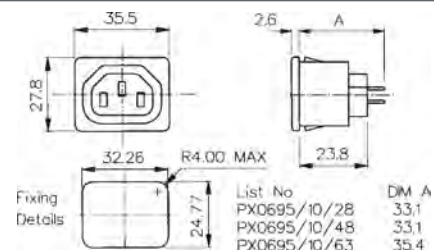
Specifications	PX0675/Term/Col	PX0675/PC/Col
Fixing:	Flange	P.C.B./Flange
Terminations:	/28 (2.8mm solder), /48 (4.8mm tab), /63 (6.3mm tab)	P.C. Spills
Colours:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V a.c. (UL & CSA 15A, 250V a.c.)	10A, 250V a.c. (UL & CSA 15A, 250V a.c.)
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10 ⁴ MΩ	>10 ⁴ MΩ
A.C. Breakdown:	Pole-Pole 7kV. Poles-Panel 9kV	Pole-Pole 4kV. Poles-Panel 9kV
Operating Temp.	-40°C to +70°C	-40°C to +70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass, Tin Plated	Brass, Tin Plated
Approvals:	    UR approvals does not cover 4.8mm tab option	   
Accessories / Notes:	P.No. 12075, KT0006, 14228 (See Pages 150-152) VDE and ENEC approval for black versions only.	Standard without cover. With cover add /12599 to P.No., 14228 (see page 151) VDE and ENEC approval for black versions only.
Mates with:	PX0685, PX0686, PX0686/SE	PX0685, PX0686, PX0686/SE
RoHS	Compliant	Compliant

Snap Fit to Panel Outlet



PX0695/10/28

- Panel Sizes 1, 1.5, 2.0 or 3.0mm
- 2.8 or 6.3mm Tabs
- 10A, 250V a.c.
(15A, 250V a.c. UL & CSA)

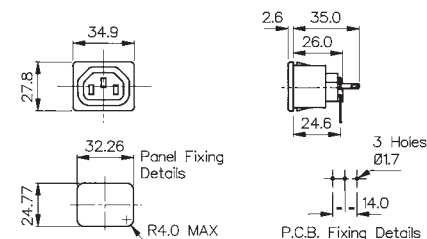


PC Snap Fit to Panel Outlet



PX0695/10/PC

- Panel Sizes 1, 1.5, 2.0 or 3.0mm
- PC Spills
- 10A, 250V a.c.
(15A, 250V a.c. UL & CSA)



Specifications

PX0695/Panel/Term/Col

PX0695/Panel/PC/Col

Fixing:	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)
Terminations:	/28 (2.8mm solder), /63 (6.3mm tab)
Colours:	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V a.c. (UL & CSA 15A, 250V a.c.)
Contact Resistance:	<10mΩ
Insulation Resistance:	>10 ⁴ MΩ
A.C. Breakdown:	Pole-Pole 7kV. Poles-Panel 9kV
Operating Temp.	-40°C to +70°C
Mouldings:	Nylon, Flammability Rating UL94V-0
Contacts:	Brass, Tin Plated
Approvals:	
Accessories / Notes:	P.No. 12075, 14228 (See Page 151-152) VDE and ENEC approval for black versions only.

Fixing:	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)
Terminations:	P.C. Spills
Colours:	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V a.c. (UL & CSA 15A, 250V a.c.)
Contact Resistance:	<10mΩ
Insulation Resistance:	>10 ⁴ MΩ
A.C. Breakdown:	Pole-Pole 4kV. Poles-Panel 9kV
Operating Temp.	-40°C to +70°C
Mouldings:	Nylon, Flammability Rating UL94V-0
Contacts:	Brass, Tin Plated
Approvals:	
Accessories / Notes:	P.No. 14228 (see page 151) VDE and ENEC approval for black versions only.

Mates with:

PX0685, PX0686, PX0686/SE,

PX0685, PX0686, PX0686/SE,

RoHS

Compliant

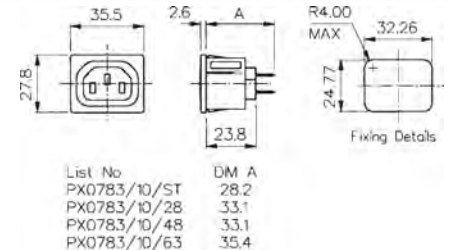
Compliant

Snap Fit to Panel Outlet



PX0783/10/28

- Shuttered
- Panel Sizes 1, 1.5, 2.0 or 3.0mm
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V a.c.
(15A, 250V a.c. UL & CSA)

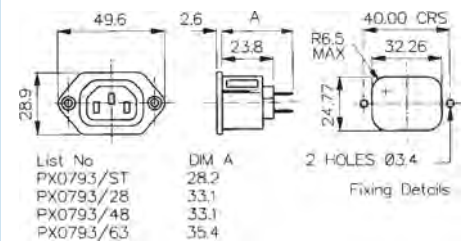


Flange Mount Outlet



PX0793/28

- Shuttered
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V a.c.
(15A, 250V a.c. UL & CSA)

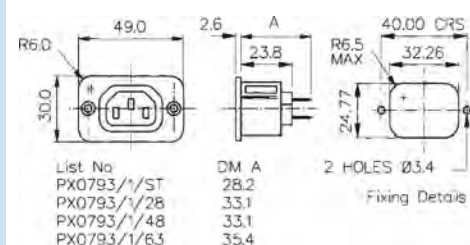


PC Snap Fit to Panel Outlet



PX0793/1/Termination

- Shuttered
- Rectangular Flange Mount Outlet
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V a.c.
(15A, 250V a.c. UL & CSA)



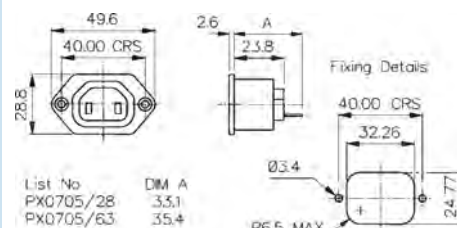
Specifications	PX0783/Panel/Term/Col	PX0793/Panel/PC/Col	PX0793/1/Term/Col
Fixing:	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)	Flange	Rectangular Flange
Terminations:	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab), /ST (solder)	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab), /ST (solder)	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab), /ST (solder)
Colours:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V a.c. (UL & CSA 15A, 250V a.c.)	10A, 250V a.c. (UL & CSA 15A, 250V a.c.)	10A, 250V a.c. (UL & CSA 15A, 250V a.c.)
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Insulation Resistance:	>10 ⁴ MΩ	>10 ⁴ MΩ	>10 ⁴ MΩ
A.C. Breakdown:	Pole-Pole 7kV. Poles-Panel 9kV	Pole-Pole 7kV. Poles-Panel 9kV	Pole-Pole 7kV. Poles-Panel 9kV
Operating Temp.	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Mouldings:	Nylon, Flammability Rating UL 94V-0	Nylon, Flammability Rating UL 94V-0	Nylon, Flammability Rating UL 94V-0
Contacts:	Brass, Tin Plated	Brass, Tin Plated	Brass, Tin Plated
Approvals:	 UR approvals does not cover 4.8mm tab option	 UR approvals does not cover 4.8mm tab option	 US approvals only covers /ST versions
Accessories / Notes:	P.No. 12075, 14228 (See Page 151-152) VDE and ENEC approval for black versions only.	P.No. 12075, KT0006, 14228 (See Pages 150-152) VDE and ENEC approval for black versions only.	P.No. 12075, KT0006, 14228 (See Pages 150-152) VDE and ENEC approval for black versions only.
Mates with:	PX0685, PX0686, PX0686/SE	PX0685, PX0686, PX0686/SE	PX0685, PX0686, PX0686/SE
	RoHS Compliant	Compliant	Compliant

Flange Mount Outlet



PX0705/28

- Two Pin Class II (No Earth Pin)
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V a.c.
(15A, 250V a.c. UL & CSA)

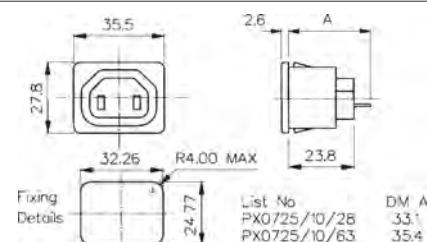


Snap Fit to Panel Outlet



PX0725/10/28

- Two Pin Class II (No Earth Pin)
- Panel Sizes 1, 1.5, 2.0 or 3.0mm
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V a.c.
(15A, 250V a.c. UL & CSA)



Specifications

PX0705/Term/Col

PX0725/Panel/Term/Col

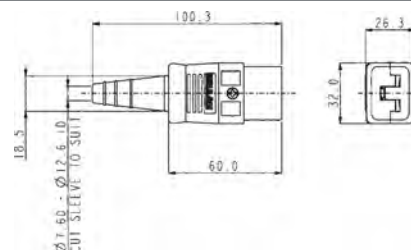
Fixing:	Flange	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)
Terminations:	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)
Colours:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V a.c. (UL & CSA 15A, 250V a.c.)	10A, 250V a.c. (UL & CSA 15A, 250V a.c.)
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10 ⁴ MΩ	>10 ⁴ MΩ
A.C. Breakdown:	Pole-Pole 4kV. Poles-Panel 9kV	Pole-Pole 7kV. Poles-Panel 9kV
Operating Temp.	-40°C to +70°C	-40°C to +70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass, Tin Plated	Brass, Tin Plated
Approvals:	    UR approvals does not cover 4.8mm tab option	    UR approvals does not cover 4.8mm tab option
Accessories / Notes:	P.No. 12075 (See Page 152) VDE and ENEC approval for black versions only.	P.No. 12075 (See Page 152) VDE and ENEC approval for black versions only.
RoHS	Compliant	Compliant

C19 Straight Female Cable Connector



PX0599

- Rewirable Screw Terminals
- 16A, 250V a.c.
- (20A, 250V a.c. UL and CSA)
- Wire Sizes (max);
3 x 2.5mm², 3 x 12AWG
- Overall cable diameter up to 12mm

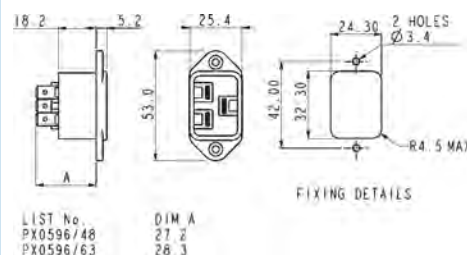


C20 Flange Mount Inlet



PX0596

- 6.3mm or 4.8mm Tabs
- 16A, 250V a.c.
- (20A, 250V a.c. UL and CSA)

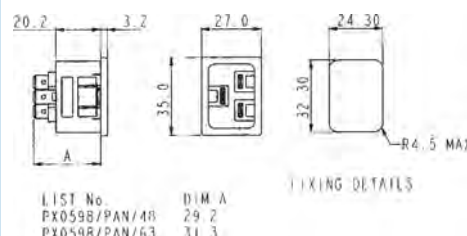


C20 Snap Fit to Panel Inlet



PX0598

- Fits panel sizes 1, 1.5, 2.0 or 3.0mm
- 6.3mm or 4.8mm Tabs
- 16A, 250V a.c.
- (20A, 250V a.c. UL and CSA)



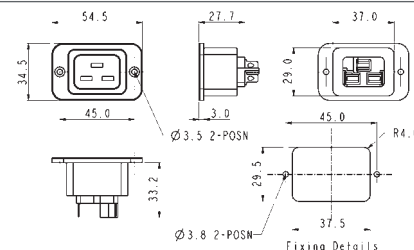
Specifications	PX0599	PX0596/Termination	PX0598/Panel/Termination
Fixing (Panel):		Flange	Snap Fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)
Terminations:	Screw Terminals	/63 (6.3mm tab), /48 (4.8mm tab)	/63 (6.3mm tab), /48 (4.8mm tab)
Max. Rating:	16A, 250V ac 20A, 250V ac UL and CSA	16A, 250V ac 20A, 250V ac UL and CSA	16A, 250V ac 20A, 250V ac UL and CSA
Insulation Resistance:	>5MΩ	>10 ⁶ MΩ	>10 ⁶ MΩ
Dielectric Strength Between contacts:	1.5kV ac	1.5kV ac	1.5kV ac
Between contacts & accessible surfaces:	3kV ac	3kV ac	3kV ac
Operating Temp. Range:	−40°C to +70°C	−40°C to +70°C	−40°C to +70°C
Max. Pin Temp.:		70°C	70°C
Withdrawal Force:	15N Min, 60N Max.		
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL 94V-0
Contacts:	Brass, Clean	Pins: Brass, Nickel Plated Tabs: Brass, Tin Plate	Pins: Brass, Nickel Plated Tabs: Brass, Tin Plated
Approvals:			
Mating Connectors:	C20 Inlets; PX0596 Flange and PX0598 Snapfit	PX0599 Rewirable Connector	PX0599 Rewirable Connector
Accessories:		KT0012, P.No. 14064 (see Pages 150 & 152)	P.No. 14064 (see Page 152)
RoHS	Compliant	Compliant	Compliant

Flange Mount Outlet



PX0591/63

- Flange Mounting
- 6.3mm Tabs
- 16A, 250V a.c.
(20A, 250V a.c., UL & CSA)

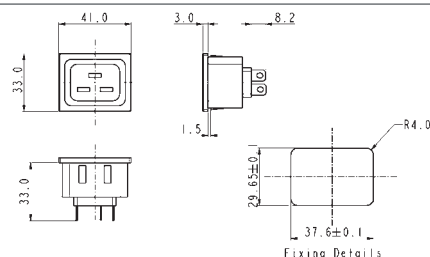


Snap Fit to Panel Outlet



PX0592/15/63

- Snap Fit to Panel
- Panel Size 1.5mm
- 6.3mm Tabs
- 16A, 250V a.c.
(20A, 250V a.c., UL & CSA)

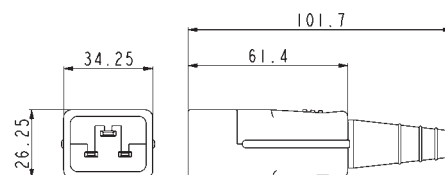


Straight Cable Connector

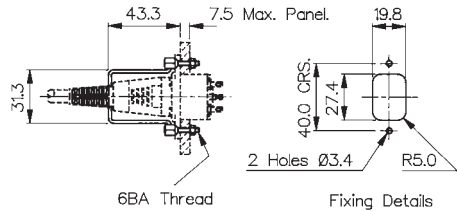
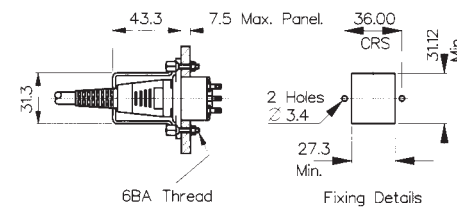
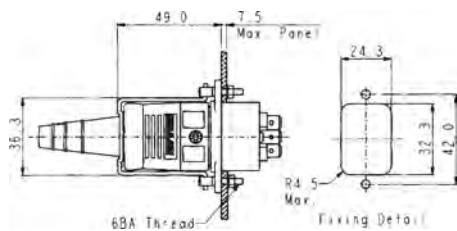


PX0594

- Re-wireable, screw terminals
- 16A, 250V a.c. (20A, 250V a.c. UL & CSA)
- Wire size (max.): 3 x 2.5mm², 3 x 12 AWG
- Overall cable diameter up to 12mm

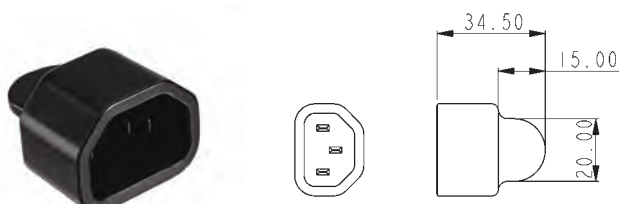


Specifications	PX0591/Termination	PX0592/15/Termination	PX0594
Fixing (Panel):	Flange	Snap fit, 1.5mm accommodation	
Terminations:	/63 (6.3mm tab)	/63 (6.3mm tab)	Screw terminals
Max. Rating:	16A, 250V a.c. (UL & CSA 20A, 250V a.c.)	16A, 250V a.c. (UL & CSA 20A, 250V a.c.)	16A, 250V a.c. (UL & CSA 20A, 250V a.c.)
Insulation Resistance:	>100MΩ (250V, 1 min.)	>100MΩ (250V, 1 min.)	>5MΩ (min)
Dielectric Strength			
Between contacts:	1.5kV ac	1.5kV ac	1.5kV ac
Between contacts & accessible surfaces:	3kV ac	3kV ac	3kV ac
Operating Temp. Range:	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Max. Pin Temp.:			
Withdrawal Force:			15N Min, 60N Max.
Mouldings:	P.B.T., Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass, Tin Plated	Brass, Tin Plated	Brass, Nickel Plated
Approvals:			 all pending
Accessories:			
Mates with:	PX0594	PX0594	PX0591, PX0592
RoHS	Compliant	Compliant	Compliant

Retaining Clip	 KT0006 (Shown with PX0580 & PX0587)	○ Prevents Accidental Removal ○ Fits flanged inlets	 43.3 7.5 Max. Panel 19.8 31.3 40.0 CRS 27.4 2 Holes Ø3.4 R5.0 6BA Thread Fixing Details
Retaining Clip	 KT0009 (Shown with PF0001 & PX0587)	○ Prevents Accidental Removal ○ Fits fused flanged inlets	 43.3 7.5 Max. Panel 36.00 CRS 31.12 Min. 31.3 2 Holes Ø3.4 27.3 Min. 6BA Thread Fixing Details
Retaining Clip	 KT0012 (Shown with PX0596 & PX0599)	○ Prevents Accidental Removal ○ For use with PX0596 flanged inlet and PX0599 connector	 49.0 7.5 Max. Panel 24.3 36.3 32.3 42.0 6BA Thread R4.5 Max. Fixing Detail

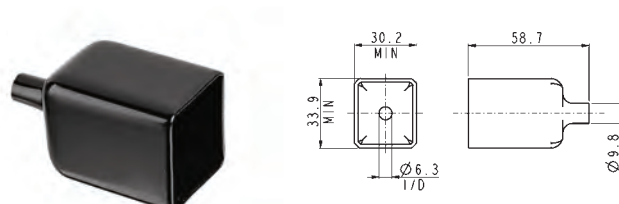
Specifications	KT0006	KT0009	KT0012
	Retaining Clip to prevent accidental removal of connector. Fits: PX0580 + PX0587 PX0590 + PX0597 PX0690 + PX0587 PX0675 + PX0686 PX0793 + PX0686 PX0793/1 + PX0686	Retaining Clip to prevent accidental removal of connector. Fits: PF0001+ PX0587 PF0001/PC +PX0587 PF0002 + PX0587 PF0030 + PX0587	Retaining Clip to prevent accidental removal of connector. Fits: PX0596 + PX0599
Material:	Clip: Stainless Steel, other parts Brass, Nickel Plated	Clip: Stainless Steel, other parts Brass, Nickel Plated	Clip: Stainless Steel, other parts Brass, Nickel Plated
RoHS	Compliant	Compliant	Compliant

Blanking Cover



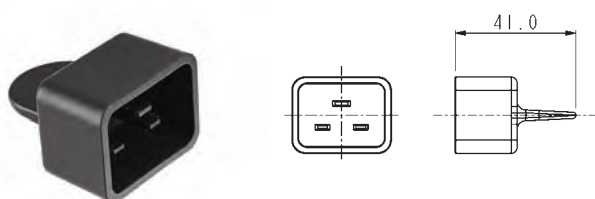
PNo 14228

Insulation Boot



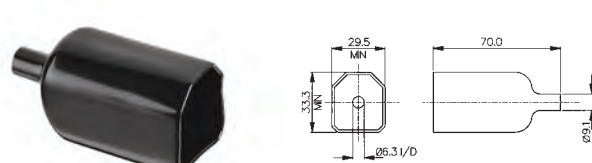
PNo 14340

Blanking Cover



PNo 14277

Insulation Boot



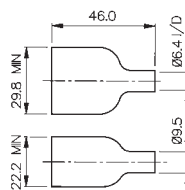
PNo 14317

- Blanking covers
- Protects Front of Outlet Connector
- Protects Against Accidental Electric Shock

- PVC Insulation Boots
- Protects Rear of Connector
- Protects Against Accidental Electric Shock

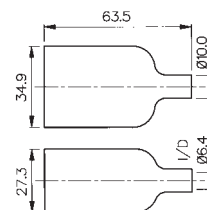
Specifications	P.No. 14228	P.No. 14277	P.No. 14340	P.No. 14317
	Blanking cover for PX0578, PX0675, PX0695, PX0783, PX0793, PX0716, PX0717, PX0718	Blanking cover for PX0591, PX0592,	Insulation boot for PS20, PS21, PS25, PS25,	Insulation boot for PF0030, PF0033 (except /PC versions)
Operating Temp:	-40°C to +70°C	-40°C to +70°C	-20°C to +60°C	-20°C to +60°C
Max. Working Voltage:	250V a.c.	250V a.c.	250V a.c.	250V a.c.
Flash Tested:	2kV a.c.	2kV a.c.	2kV a.c.	2kV a.c.
Material:	Nylon	Nylon	P.V.C.	P.V.C.
Flammability Rating:	UL94V-0	UL94V-0	UL94V-0	UL94V-0
RoHS	Compliant	Compliant	Compliant	Compliant

Insulation Boot



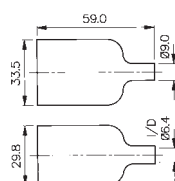
PNo 11328

Insulation Boot



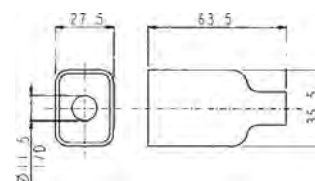
PNo 12075

Insulation Boot



PNo 11987

Insulation Boot



PNo 14064

- PVC Insulation Boots
- Protects Rear of Connector
- Protects Against Accidental Electric Shock

Specifications	P.No. 11328	P.No. 11987	P.No. 12075	P.No. 14064
	Insulation boot for PX0575, PX0579, PX0580, PX0590, PX0595	Insulation boot for PF range PF0001, PF0002, PF0006, PF0007, PF0011, PF0016 (Except /PC versions)	Insulation boot for PX0675, PX0695, PX0705, PX0725, PX0783, PX0793, PX0793/1 (Except /PC versions)	Insulation boot for PX0596, PX0598
Operating Temp:	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C
Max. Working Voltage:	250V a.c.	250V a.c.	250V a.c.	250V a.c.
Flash Tested:	2kV a.c.	2kV a.c.	2kV a.c.	2kV a.c.
Material:	P.V.C.	P.V.C.	P.V.C.	P.V.C.
Flammability Rating:	UL94V-0	UL94V-0	UL94V-0	UL94V-0
RoHS	Compliant	Compliant	Compliant	Compliant

Distribution Units have combinations of **four, five or six outlets** together with **neon indicator**, fuse and switch options. The **three sizes** are available in various combinations and, other than the compact version, all have shuttered outlets. The larger enclosed versions are also available with **EMI filtering**.

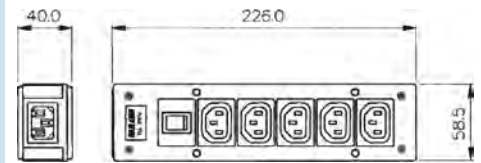


IEC Distribution Units



PXD301/050/01/1

- Five Shuttered Outlets
- 5 x 20mm Fuseholder
- Neon Indicator
- Filtered or Non-filtered
- EN60320 Inlet
- 10A, 250V a.c.

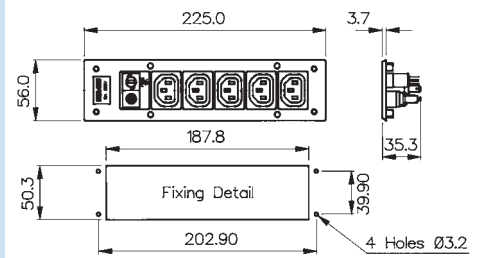


IEC Panel Mount Distribution Unit



PXD100/050/01/1

- Five Shuttered Outlets
- 5 x 20mm Fuseholder
- Neon Indicator
- Screw Fit to Panel
- 10A, 250V a.c.

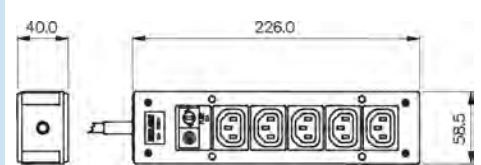


IEC Distribution Unit



PXD303/050/01/1
 PXD306/050/01/1

- Five Shuttered Outlets
- 5 x 20mm Fuseholder
- Neon Indicator
- Filtered or Non-filtered
- 2 Metre Cable with BS1363 Plug
- 10A, 250V a.c.



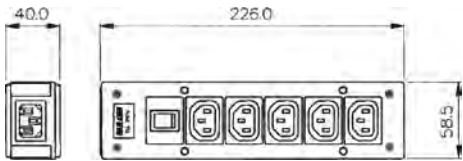
Part No.	Inlet	Outlet	EMI Filter	Neon Indicator	Fuse	Illuminated Switch	Approvals
Panel Style:							
PXD100/050/01/1		5 Shuttered		1	1		Ⓢ
Box Style:							
PXD301/050/01/1	1	5 Shuttered		1	1		Ⓢ
PXD301/050/07/1	1	5 Shuttered				Red	Ⓢ
PXD301/050/08/1	1	5 Shuttered				Green	
PXD301/550/01/1	1	5 Shuttered	●	1	1		
PXD301/550/07/1	1	5 Shuttered	●			Red	Ⓢ
PXD301/550/08/1	1	5 Shuttered	●			Green	
PXD303/050/01/1	2m cable with BS1363 plug	5 Shuttered		1	1		
PXD303/050/07/1	2m cable with BS1363 plug	5 Shuttered				Red	
PXD303/050/08/1	2m cable with BS1363 plug	5 Shuttered				Green	
PXD303/550/01/1	2m cable with BS1363 plug	5 Shuttered	●	1	1		
PXD303/550/07/1	2m cable with BS1363 plug	5 Shuttered	●			Red	
PXD303/550/08/1	2m cable with BS1363 plug	5 Shuttered	●			Green	
PXD306/050/01/1	2m cable with CEE7 Sheet VII plug	5 Shuttered		1	1		Ⓢ

IEC Distribution Unit



PXD301/050/07/1

- Five Shuttered Outlets
- Illuminated Switch
- Filtered or Non-Filtered
- EN60320 Inlet
- 10A, 250V a.c.

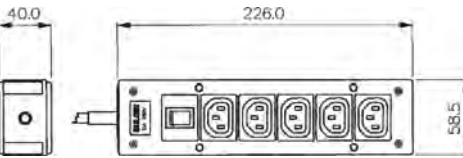


IEC Distribution Unit



PXD303/050/08/1

- Five Shuttered Outlets
- Illuminated Switch
- Filtered or Non-Filtered
- 2m Cable and BS1363 plug
- 10A, 250V a.c.



Specifications

Mouldings:	Thermoplastic
Housing:	ABS
Connectors:	Nylon
Contacts:	Outlets: Brass, Tin Plated Inlets: Brass, Nickel Plated
Voltage Rating:	250V a.c. 50/60Hz
Current Rating:	10A
Proof Voltage:	2kV
Temp. Range:	-5°C to +60°C
Mating Connectors:	PX0686, PX0686/SE
RoHS	Compliant

Filter

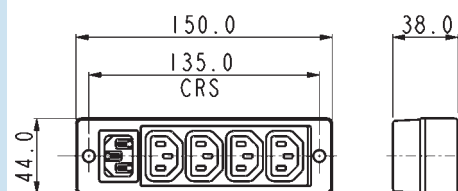
Max. Earth Leakage:	
Current:	<0.35mA (at 250V, 50Hz)
Capacitor	2 x 2.2nF (Y), 1 x 15nF (X)
Inductance:	2 x 0.35mH
Fuse:	5 x 20mm, 10A (ceramic HRC type, IEC 127)

Compact Distribution Unit



PXD200

- Four Outlets
- EN60320 Inlet
- 10A, 250V ac
- cULus Approval

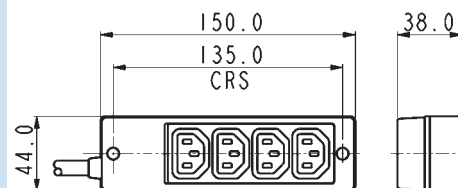


Compact Distribution Unit



PXD201

- Four Outlets
- 2m Cable with BS1363 connector, Schuko connector (CEE7) or NEMA 5/15 connector
- 10A, 250V a.c.



Specifications

Mouldings:	Thermoplastic
Housing:	ABS, UL94V-0
Connectors:	BS1363, CEE7, NEMA 5/15
Contacts:	Outlets: Brass, Tin Plated Inlets: Brass, Nickel Plated
Voltage Rating:	250V a.c. 50/60Hz
Current Rating:	10A
Proof Voltage:	2kV
Temp. Range:	-5°C to +60°C
Approvals	cULus Listed (PXD200)
RoHS	Compliant

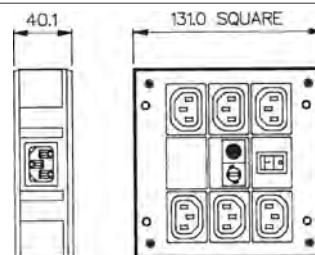
Part No.	Inlet	Outlet
PXD200	1	4
PXD201	2m cable with BS 1363 plug	4
PXD201/1	2m cable with Schuko plug	4
PXD201/2	2m cable with NEMA 5/15	4

Compact Distribution Unit



PXD701/061/10/1

- Six Shuttered Outlets
- 5 x 20mm Fuseholder
- Filtered or Non Filtered
- Switch, Fuse, Neon Indicator
- With IEC Inlet
- 10A, 250V a.c.

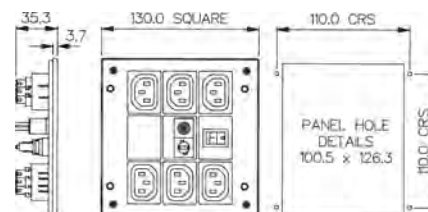


IEC Mount Distribution Unit



PXD500/061/10/1

- Six Shuttered Outlets
- 5 x 20mm Fuseholder
- Switch, Fuse, Neon Indicator
- Screw Fit to Panel
- 10A, 250V

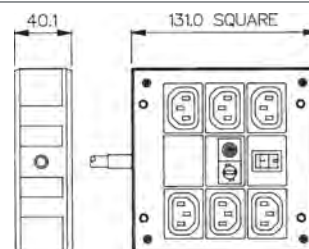


Compact Distribution Unit



PXD703/061/10/1
 PXD706/061/10/1

- Six Shuttered Outlets
- 5 x 20mm Fuseholder
- Filtered or Non Filtered
- Switch, Fuse, Neon Indicator
- 2 Metre Cable with BS1363 or CEE7 Plug
- 10A, 250V



Specifications		Part No.	Inlet	Outlet	EMI Filter	Switch	Fuse	Neon Indicator
Mouldings:	Thermoplastic	Panel Style:						
Housing:	ABS	PXD500/061/10/1		6 Shuttered		1	1	1
Connectors:	Nylon	Box Style:						
Contacts:	Outlets: Brass, Tin Plated Inlets: Brass, Nickel Plated	PXD701/061/10/1	1	6 Shuttered		1	1	1
Voltage Rating:	250V a.c. 50/60Hz	PXD701/561/10/1	1	6 Shuttered	●	1	1	1
Current Rating:	10A	PXD703/061/10/1	2m cable with BS 1363 plug	6 Shuttered		1	1	1
Proof Voltage:	2kV	PXD703/561/10/1	2m cable with BS 1363 plug	6 Shuttered	●	1	1	1
Temp. Range:	-5°C to +60°C	PXD706/061/10/1	2m cable with CEE7 Sheet VII plug	6 Shuttered		1	1	1
RoHS	Compliant							

Filter

Max. Earth Leakage Current:	<0.35mA (at 250V, 50Hz)
Capacitor	2 x 2.2nF (Y), 1 x 15nF (X)
Inductance:	2 x 0.35mH
Fuse:	5 x 20mm, 10A (ceramic HRC type, IEC 127)



With over 26,000 combinations Bulgin's Polysnap mains power inlet modules offer a very adaptable and flexible solution to panel design. Polysnap allow combinations of mains inlets and outlets, filtered inlets, switches, fuseholders, voltage selectors and indicators mounted in either horizontal or vertical format bezels ready for quick snap-fit assembly. The compact design occupies the minimum of panel area and a single rectangular mounting hole, offering easy installation for this mains power entry module.

To complement Polysnap the Polyflange range offers a flange fixing alternative for designers who prefer the security of screw fixing. All types and variations are available through Bulgin's extensive distribution network.

Components used in Polysnap® and Polyflange Power Inlet Modules

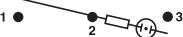
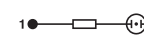
Note: Components are Approved Individually (where applicable). Please see individual component pages for full specifications.

IEC Connectors Fuseholders and Voltage Selectors

Type	Description	Rating	Approvals
DX0928	Neon Indicator	110V or 250V a.c./d.c. working	
FX0359	5 x 20mm Fuseholder	Max. rating 10A. 250V See Page 192	   
PF0011	C14 Power Inlet with Integral 5 x 20mm Fuseholder	Max. rating 10A. 250V a.c. See Page 136	    
PF0033	C14 Power Inlet with Integral twin 5 x 20mm Fuseholder	Max. rating 10A. 250V a.c. See Page 137	   
PX0575	C14 Power Inlet, Cold condition	Max. rating 10A. 250V a.c. See Page 132	    
PX0595	C16 Power Inlet, Hot Condition	Max. rating 10A. 250V a.c. See Page 138	   
PX0695	Sheet F Power Outlet	Max. rating 10A. 250V a.c. See Page 145	   
PX0783	Sheet F Shuttered Power Outlet	Max. rating 10A. 250V a.c. See Page 146	   
PX0598	C20 Power Inlet	Max. rating 16A, 250V a.c. See Page 148	   
VS0001	Voltage Selector marked 120/240V	Max. rating 6.3A. 120/240V a.c. See Page 114	 

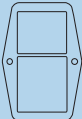
*Filtered options for 6.3mm tag versions only

Switches and Indicators

No Poles	Illumination	Current Ratings	Circuit	Approvals
Single Pole	Non-illuminated	Max. rating 16A Resistive, 4A Inductive, 250Vac.		  
	High Inrush	Max. rating 16A Resistive, 4A Inductive, 250Vac. Inrush current, 150A to IEC65.		  
	Illuminated	Max. rating 16A Resistive, 4A Inductive, 250Vac.		  
Double Pole	Non-illuminated	Max. rating 16A Resistive, 4A Inductive, 250Vac.		  
	High Inrush	Max. rating 16A Resistive, 4A Inductive, 250Vac. Inrush current, 150A to IEC65.		  
	Illuminated	Max. rating 16A Resistive, 4A Inductive, 250Vac. 250Vac Neon.		  
For Mini Bezel: Single Pole	Non-illuminated	Max. rating 10A Resistive, 4A Inductive, 250Vac.		  
	Illuminated	Max. rating 10A Resistive, 4A Inductive, 250Vac. 250Vac Neon.		  
Double Pole	Non-illuminated	Max. rating 10A Resistive, 4A Inductive, 250Vac.		  
	High Inrush	Max. rating 10A Resistive, 4A Inductive, 250Vac. Inrush current, 85A to EN61058-1.		  
	Illuminated	Max. rating 10A Resistive, 4A Inductive, 250Vac. 250Vac Neon.		  
Indicator		250Vac neon lamp connected internally to terminals.		  

RoHS Polysnap and Polyflange range and all components are compliant

Overview of Polysnap Modules

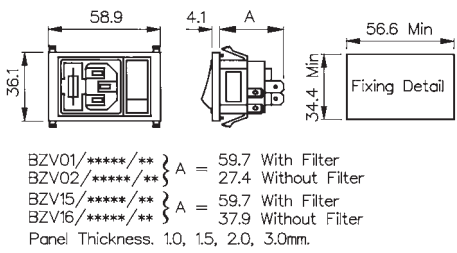
Style	      						
	C14	Inlets C14 Fused	C16	C20	Outlets Sheet F	Inlet/ Outlet Combinations C14	C14 Fused
Snap to Panel Vertical 	With Single Pole switch Page 163 With other components Pages 164, 165, 166	With Single Pole switch Page 161 With Double Pole Switch Page 162	With Single Pole switch Page 163 With other components Pages 164, 165, 166	With Single Pole switch Page 167	With Single Pole switch Page 169	With other components Page 168	
Snap to Panel Horizontal 	Mini Bezel With Single Pole Switch Page 175 Mini Bezel With Double Pole Switch Page 175	With Single Pole switch Page 170 With Double Pole Switch Page 171				With Single Pole switch Page 177 With Double Pole switch Page 173 No additional components Page 174	
Flange Mount - Vertical 		With Single Pole switch Page 176 With Double Pole switch Page 177					

Vertical Module Arrangement



BZV01/Z0000/01

- Fused Inlet with 2.8mm or 6.3mm tabs
- Single Pole Switch Variations
- Filtered Inlet Option
- Options of I/O marked switches



How to order -

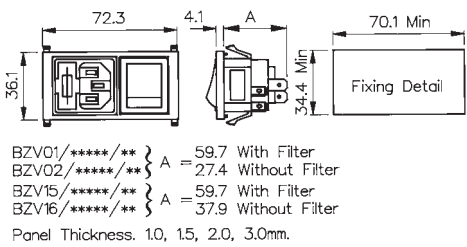
BZV XX	/	XXXXX	/	XX
Type of Inlet / Outlet		Filtered or Non Filtered Inlet		Filtered or Non Filtered Inlet
Single Fused C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs: 01 = PF0011/63 02 = PF0011/28		Z0000 = Non Filtered Axxxx = Standard		Single Pole Switch: 01 = S.P. Switch
Twin Fused C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs: 15 = PF0033/63 16 = PF0033/28		For Filtered inlet use 6th to 9th characters from filter ordering code see pages 179 -180 E.g. BZV01/A0620/01		Single Pole Neon Switch: 02 = S.P. Red Neon Switch 08 = S.P. Green Neon Switch
				Neon Indicator: 03 = Red Neon Indicator
				Single Pole High Inrush Switch: 46 = S.P. High Inrush Switch
				Single Pole Switch Marked I/O: 69 = S.P. Switch (I/O)
				Single Pole Neon Switch Marked (I/O): 71 = S.P. Red Neon Switch (I/O) 74 = S.P. Green Neon Switch (I/O)
				Single Pole High Inrush Switch Marked (I/O): 98 = S.P. High Inrush Switch (I/O)

Vertical Module Arrangement



BZV01/Z0000/10

- Fused Inlet with 2.8mm or 6.3mm tabs
- Double Pole Switch or
- Indicator Variations
- Filtered Inlet Option
- Options of I/O marked switches



How to order -

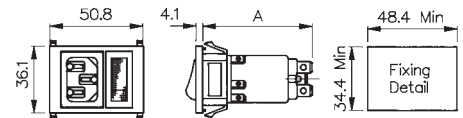
BZV XX / XXXXX / XX		
Type of Inlet / Outlet	Filtered or Non Filtered Inlet	Combination of Other Components
Single Fused C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs: 01 = PF0011/63 02 = PF0011/28 Twin Fused C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs: 15 = PF0033/63 16 = PF0033/28	Z0000 = Non Filtered Axxxx = Standard For Filtered inlet use 6th to 9th characters from filter ordering code see pages 179-180 E.g. BZV01/A0620/10	Neon Indicator: D3 = Red Neon Indicator Double Pole Switch: 10 = D.P. Switch Double Pole Neon Switch: 11 = D.P. Red Neon Switch 12 = D.P. Green Neon Switch Double Pole High Inrush Switch: 13 = D.P. High Inrush Switch Double Pole Switch Marked I/O: 70 = D.P. Switch (I/O) Double Pole Neon Switch Marked (I/O): 76 = D.P. Red Neon Switch (I/O) 77 = D.P. Green Neon Switch (I/O) Double Pole High Inrush Switch Marked (I/O): 78 = D.P. High Inrush Switch (I/O) B1 = D.P. High Inrush Green Neon Switch (I/O)

Vertical Module Arrangement



BZV03/Z0000/02

- Inlet with 2.8mm or 6.3mm tags
- Single Pole Switch or Neon Indicator Variations
- Filtered Inlet Option
- Options of I/O marked switches
- Non Fused



BZV03, BZV04/****/** A = 62.5 With Filter
 28.1 Without Filter
 BZV05, BZV06/****/** A = 28.1

Panel Thickness. 1.0, 1.5, 2.0, 3.0mm.

How to order -

BZV XX**XXXXX****XX****Type of Inlet / Outlet**

C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs:

03 = PX0575/63

04 = PX0575/28

C16 Power Inlet (hot condition), 6.3 or 2.8mm tabs:

05 = PX0595/63

06 = PX0595/28

Please note type 05 and 06 are not available in filtered version

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from filter ordering code see page 178
 E.g. BZV03/A0120/02

Combination of Other Components

Single Pole Switch:

01 = S.P. Switch

Single Pole Neon Switch:

02 = S.P. Red Neon Switch

08 = S.P. Green Neon Switch

Neon Indicator:

03 = Red Neon Indicator

Single Pole High Inrush Switch:

46 = S.P. High Inrush Switch

Single Pole Switch Marked I/O:

69 = S.P. Switch (I/O)

Single Pole Neon Switch Marked (I/O):

71 = S.P. Red Neon Switch (I/O)

74 = S.P. Green Neon Switch (I/O)

Single Pole High Inrush Switch Marked (I/O):

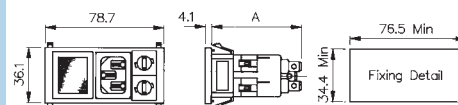
98 = S.P. High Inrush Switch (I/O)

Vertical Module Arrangement



BZV03/Z0000/07

- ⬡ Inlet with 2.8mm or 6.3mm tags
- ⬡ Double Pole Switch/
Fuseholder/Indicator/
Voltage Selectors/
Blanking Plate
- ⬡ Filtered Inlet Option
- ⬡ Options of I/O marked switches



Panel Thickness: 1.0, 1.5, 2.0, 3.0mm.

 BZV03, BZV04/****/** A = 62.5 With Filter
 39.0 Without Filter

BZV05, BZV06/****/** A = 39.0

How to order -

BZV XX**XXXXX****XX**

Type of Inlet / Outlet

 C14 Power Inlet
 (cold condition),
 6.3 or 2.8mm tabs:

 03 = PX0575/63
 04 = PX0575/28

 C16 Power Inlet (hot
 condition), 6.3 or
 2.8mm tabs:

 05 = PX0595/63
 06 = PX0595/28

 Please note type 05
 and 06 are not
 available in
 filtered version

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

 For Filtered inlet use 6th
 to 9th characters from filter
 ordering code see page 178
 E.g. BZV03/A0120/07

Combination of Other Components

 Twin Fuseholder and Double Pole
 Switch:

05 = 2 x FX0359 + D.P. Switch

 Twin Fuseholder and Double Pole Neon
 Switch:

06 = 2 x FX0359 + D.P. Red Neon

09 = 2 x FX0359 + D.P. Green Neon

19 = 2 x FX0359 + D.P. Red Neon

Switch 125V

Twin Fuseholder and Neon Indicator:

07 = 2 x FX0359 + Red Neon

Indicator

 Voltage Selector, Fuseholder and Double
 Pole Switch:

15 = 1 x VS0001 + 1 x FX0359 +

Double Pole switch

 Voltage Selector, Fuseholder and Double
 Pole Neon Switch:

16 = 1 x VS0001 + 1 x FX0359 + D.P.

Red Neon Switch

18 = 1 x VS0001 + 1 x FX0359 + D.P.

Green Neon Switch

 Voltage Selector, Fuseholder and Neon
 Indicator:

17 = 1 x VS0001 + 1 x FX0359 + Red

Neon Indicator

 Twin Fuseholder and Double Pole High
 Inrush Switch:

20 = 2 x FX0359 + D.P. High Inrush

Switch

 Twin Fuseholder and Double Pole High
 Inrush Neon Switch:

21 = 2 x FX0359 + 1 x D.P. High

Inrush Green Neon Switch

22 = 2 x FX0359 + 1 x D.P. High

Inrush Red Neon Switch

 Voltage Selector, Neon Indicator and
 Double Pole Switch

25 = 1 x VS0001 + 1 x

DX0928/110V/Red + D.P. Switch

26 = 1 x VS0001 + 1 x

DX0928/110V/Green + D.P. Switch

27 = 1 x VS0001 + 1 x

DX0928/250V/Red + D.P. Switch

28 = 1 x VS0001 + 1 x

DX0928/250V/Green + D.P. Switch

 Voltage Selector, Neon Indicator and
 Double Pole High Inrush Switch:

29 = 1 x VS0001 + 1 x

DX0928/250V/Red + D.P. High Inrush

Switch

30 = 1 x VS0001 + 1 x

DX0928/250V/Green + D.P. High

Inrush Switch

 Fuseholder, Neon Indicator and Double
 Pole Switch

31 = 1 x FX0359 + 1 x

DX0928/110V/Red + D.P. Switch

32 = 1 x FX0359 + 1 x

DX0928/110V/Green + D.P. Switch

33 = 1 x FX0359 + 1 x

DX0928/250V/Red + D.P. Switch

34 = 1 x Fx0359 + 1 x

DX0928/250V/Green + D.P. Switch

 Fuseholder, Neon Indicator and Double
 Pole High Inrush Switch:

35 = 1 x FX0359 + 1 x

DX0928/250V/Red + D.P. High Inrush

Switch

36 = 1 x FX0359 + 1 x

DX0928/250V/Green + D.P. High

Inrush Switch

 Fuseholder, Blanking Plate and Double
 Pole High Inrush Neon Switch:

47 = 1 x FX0359 + 1 x Blanking Plate

(Right) + D.P. High Inrush Green Neon

Switch

 Fuseholder, Blanking Plate and Double
 Pole Switch:

48 = 1 x FX0359 + 1 x Blanking Plate

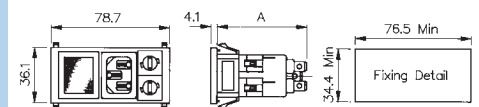
(Right) + D.P. Switch

Vertical Module Arrangement



BZV03/Z0000/07

- Inlet with 2.8mm or 6.3mm tags
- Double Pole Switch/
- Fuseholder/Indicator/
- Voltage Selectors/
- Blanking Plate
- Filtered Inlet Option
- Options of I/O marked switches



Panel Thickness: 1.0, 1.5, 2.0, 3.0mm.

 BZV03, BZV04/****/** A = 62.5 With Filter
 39.0 Without Filter
 BZV05, BZV06/****/** A = 39.0

How to order -

BZV XX**XXXXX****XX**

Type of Inlet / Outlet

C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs:

 03 = PX0575/63
 04 = PX0575/28

C16 Power Inlet (hot condition), 6.3 or 2.8mm tabs:

 05 = PX0595/63
 06 = PX0595/28

Please note type 05 and 06 are not available in filtered version

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

 For Filtered inlet use 6th to 9th characters from filter ordering code see page 178
 E.g. BZV03/A0120/07

Combination of Other Components

 Twin Fuseholder and Double Pole Switch Marked (I/O):
 72 = 2 x FX0359 + D.P. Switch (I/O)

 Twin Fuseholder and Double Pole Neon Switch Marked (I/O):
 73 = 2 x FX0359 + D.P. Red Neon Switch (I/O)
 75 = 2 x FX0359 + D.P. Green Neon Switch (I/O)
 82 = 2 x FX0359 + D.P. Red Neon Switch 125V (I/O)

 Voltage Selector, Fuseholder and Double Pole Switch Marked (I/O):
 79 = 1 x VS0001 + 1 x FX0359 + Double Pole switch (I/O)

 Voltage Selector, Fuseholder and Double Pole Neon Switch Marked (I/O):
 80 = 1 x VS0001 + 1 x FX0359 + D.P. Red Neon Switch (I/O)
 81 = 1 x VS0001 + 1 x FX0359 + D.P. Green Neon Switch (I/O)

 Twin Fuseholder and Double Pole High Inrush Switch Marked (I/O):
 83 = 2 x FX0359 + D.P. High Inrush Switch (I/O)

 Twin Fuseholder and Double Pole High Inrush Neon Switch Marked (I/O):
 84 = 2 x FX0359 + 1 x D.P. High Inrush Green Neon Switch (I/O)
 85 = 2 x FX0359 + 1 x D.P. High Inrush Red Neon Switch (I/O)

 Voltage Selector, Neon Indicator and Double Pole Switch Marked (I/O):
 86 = 1 x VS0001 + 1 x DX0928/110V/Red + D.P. Switch (I/O)
 87 = 1 x VS0001 + 1 x DX0928/110V/Green + D.P. Switch (I/O)
 88 = 1 x VS0001 + 1 x DX0928/250V/Red + D.P. Switch (I/O)
 89 = 1 x VS0001 + 1 x DX0928/250V/Green + D.P. Switch (I/O)

 Voltage Selector, Neon Indicator and Double Pole High Inrush Switch Marked (I/O):
 90 = 1 x VS0001 + 1 x DX0928/250V/Red + D.P. High Inrush Switch (I/O)
 91 = 1 x VS0001 + 1 x DX0928/250V/Green + D.P. High Inrush Switch (I/O)

 Fuseholder, Neon Indicator and Double Pole Switch Marked (I/O):
 92 = 1 x FX0359 + 1 x DX0928/110V/Red + D.P. Switch (I/O)
 93 = 1 x FX0359 + 1 x DX0928/110V/Green + D.P. Switch (I/O)
 94 = 1 x FX0359 + 1 x DX0928/250V/Red + D.P. Switch (I/O)
 95 = 1 x FX0359 + 1 x DX0928/250V/Green + D.P. Switch (I/O)

 Fuseholder, Neon Indicator and Double Pole High Inrush Switch Marked (I/O):
 96 = 1 x FX0359 + 1 x DX0928/250V/Red + D.P. High Inrush Switch (I/O)
 97 = 1 x FX0359 + 1 x DX0928/250V/Green + D.P. High Inrush Switch (I/O)

 Fuseholder, Blanking Plate and Double Pole High Inrush Neon Switch Marked (I/O):
 99 = 1 x FX0359 + 1 x Blanking Plate (Right) + D.P. High Inrush Green Neon Switch (I/O)

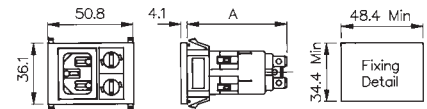
 Fuseholder, Blanking Plate and Double Pole Switch Marked (I/O):
 A0 = 1 x FX0359 + 1 x Blanking Plate (Right) + D.P. Switch (I/O)
 B2 = 1 x VS0002 + 1 x Blanking Plate
 B3 = 1 x FX0359 + 1 x Blanking Plate + D.P. High Inrush Switch (I/O)
 B5 = 1 x VS0001 + 1 x Blanking Plate + D.P. Switch (I/O)

Vertical Module Arrangement



BZV04/Z0000/04

- Inlet with 2.8mm or 6.3mm tags
- Fuseholder/Voltage Selector/Indicator options/Blanking plate



BZV03, BZV04/****/** A = 62.5 With Filter,
39.0 Without Filter.
BZV05, BZV06/****/** A = 39.0.

Panel Thickness: 1.0, 1.5, 2.0, 3.0mm.

How to order -

BZV XX**XXXXX****XX****Type of Inlet / Outlet**

C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs:

03 = PX0575/63
04 = PX0575/28

C16 Power Inlet (hot condition), 6.3 or 2.8mm tabs:

05 = PX0595/63
06 = PX0595/28

Please note type 05 and 06 are not available in filtered version

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from filter ordering code see page 178
E.g. BZV03/A0120/04

Combination of Other Components

Twin Fuseholder:
04 = 2 x FX0359

Voltage Selector and Fuseholder:
14 = 1 x VS0001 + 1 x FX0359

Voltage selector and Neon:
37 = 1 x VS0001 + DX0928/110V/Red
38 = 1 x VS0001 + DX0928/110V/Green
39 = 1 x VS0001 + DX0928/250V/Red
40 = 1 x VS0001 + DX0928/250V/Green

Fuseholder and Neon:
41 = 1 x FX0359 + DX0928/110V/Red
42 = 1 x FX0359 + DX0928/110V/Green
43 = 1 x FX0359 + DX0928/250V/Red
44 = 1 x FX0359 + DX0928/250V/Green

Fuseholder and Blanking Plate:
45 = 1 x FX0359 + Blanking Plate

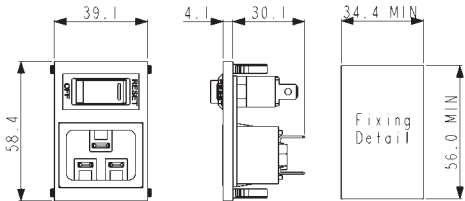
Voltage Selector and Blanking Plate:
B2 = 1 x VS0001 + Blanking Plate

Vertical Module Arrangement



BZV49/Z0000/69

- ⬡ Inlet with 4.8mm or 6.3mm tags
- ⬡ Single Pole Switch marked I/O
- ⬡ Illuminated, red or green, switches
- ⬡ High inrush non-illuminated switch



How to order -

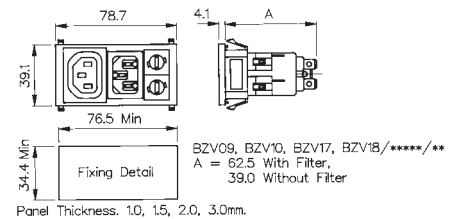
BZV XX / XXXXX / XX		
Type of Inlet / Outlet	Filtered or Non Filtered Inlet	Combination of Other Components
C20 Power Inlet (cold condition), 4.8 or 6.3mm tabs: 49 = PX0598/63 50 = PX0598/48	Z0000 = Non Filtered	Single Pole Switch: 01 = S.P. Switch Single Pole Switch Marked (I/O): 69 = S.P. Switch (I/O) Single Pole Illuminated Switch: 02 = S.P. Illuminated Red 08 = S.P. Illuminated Green Single Pole Non-illuminated High Inrush Switch Marked I/O: 98 = S.P. High Inrush Switch (I/O) Single Pole Illuminated (Red or Green 250v Neon) Switch Marked I/O: 71 = S.P. Switch Illuminated Red (I/O) 74 = S.P. Switch Illuminated Green (I/O)

Vertical Module Arrangement



BZV09/Z0000/04

- ⬡ Inlet/Outlet Combination
- ⬡ 2.8mm or 6.3mm tabs
- ⬡ Filtered Inlet and Blanking Plate options
- ⬡ Shuttered or Non-shuttered Outlet
- ⬡ Fused



How to order -

BZV XX**XXXXX****XX****Type of Inlet / Outlet**

C14 Power Inlet (cold condition) and Sheet F
 Non-shuttered Power Outlet, 2.8 or 6.3mm tabs:

09 = PX0575/63 + PX0695/63
 10 = PX0575/28 + PX0695/28

C14 Power Inlet (cold condition) and Sheet F
 Shuttered Power Outlet, 2.8 or 6.3mm tabs:

17 = PX0575/63 + PX0783/63
 18 = PX0575/28 + PX0783/28

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from
 filter ordering code see page 178
 E.g. BZV09/A0120/04

Combination of Other Components

Twin Fuseholder:
 04 = 2 x FX0359

Voltage Selector and Fuseholder:
 14 = 1 x VS0001 + 1 x FX0359

Voltage selector and Neon:
 37 = 1 x VS0001 + DX0928/110V/Red
 38 = 1 x VS0001 + DX0928/110V/Green
 39 = 1 x VS0001 + DX0928/250V/Red
 40 = 1 x VS0001 + DX0928/250V/Green

Fuseholder and Neon:
 41 = 1 x FX0359 + DX0928/110V/Red
 42 = 1 x FX0359 + DX0928/110V/Green
 43 = 1 x FX0359 + DX0928/250V/Red
 44 = 1 x FX0359 + DX0928/250V/Green

Fuseholder and Blanking Plate:
 45 = 1 x FX0359 + Blanking Plate

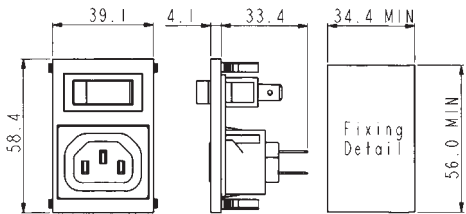
Voltage Selector and Blanking Plate:
 B2 = 1 x VS0001 + Blanking Plate

Vertical Module Arrangement



BZV45/Z0000/02

- Outlet with 2.8mm or 6.3mm tags
- Shuttered or Non-Shuttered
- Single Pole Switch or Neon Indicator
- I/O Marking Options



How to order -

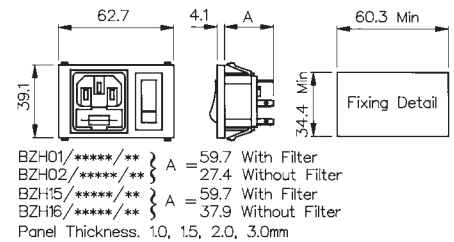
BZV XX / XXXXX / XX		
Type of Inlet / Outlet	Filtered or Non Filtered Inlet	Combination of Other Components
Sheet F Power Outlet (non shuttered), 6.3 or 2.8mm tabs: 45 = PX0695/63 46 = PX0695/28 Sheet F Power Outlet (shuttered), 6.3 or 2.8mm tabs: 47 = PX0783/63 48 = PX0783/28	Z0000 = Non Filtered	Single Pole Switch: 01 = S.P. Switch Single Pole Neon Switch: 02 = S.P. Red Neon Switch 08 = S.P. Green Neon Switch Neon Indicator: 03 = Red Neon Indicator Single Pole High Inrush Switch: 46 = S.P. High Inrush Switch Single Pole Switch Marked I/O: 69 = S.P. Switch (I/O) Single Pole Neon Switch Marked (I/O): 71 = S.P. Red Neon Switch (I/O) 74 = S.P. Green Neon Switch (I/O) Single Pole High Inrush Switch Marked (I/O): 98 = S.P. High Inrush Switch (I/O)

Horizontal Module Arrangement



BZH01/Z0000/01

- Fused Inlet with 2.8mm or 6.3mm tabs
- Single Pole Switch Variations
- Filtered Inlet Option
- Options of I/O marked switches



How to order -

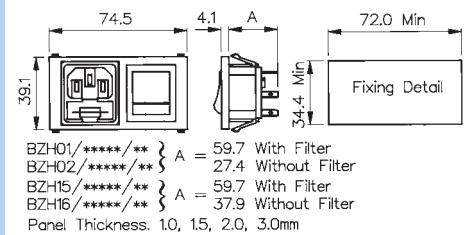
BZH XX	/	XXXXX	/	XX
Type of Inlet / Outlet Single Fused C14 Power Inlet (cold condition), 2.8 or 6.3mm tabs: 01 = PF0011/63 02 = PF0011/28 Twin Fused C14 Power Inlet (cold condition), 2.8 or 6.3mm tabs: 15 = PF0033/63 16 = PF0033/28		Filtered or Non Filtered Inlet Z0000 = Non Filtered Axxxx = Standard For Filtered inlet use 6th to 9th characters from filter ordering code see pages 179-180 E.g. BZH01/A0620/01		Combination of Other Components Single Pole Switch: 01 = S.P. Switch Single Pole Neon Switch: 02 = S.P. Red Neon Switch 08 = S.P. Green Neon Switch Neon Indicator: 03 = Red Neon Indicator Single Pole High Inrush Switch: 46 = S.P. High Inrush Switch Single Pole Switch Marked I/O: 69 = S.P. Switch (I/O) Single Pole Neon Switch Marked (I/O): 71 = S.P. Red Neon Switch (I/O) 74 = S.P. Green Neon Switch (I/O) Single Pole High Inrush Switch Marked (I/O): 98 = S.P. High Inrush Switch (I/O)

Horizontal Module Arrangement



BZH01/Z0000/10

- Fused Inlet with 2.8mm or 6.3mm tabs
- Double Pole Switch Variations
- Filtered Inlet Option
- Options of I/O marked switches



How to order -

BZH XX**XXXXX****XX****Type of Inlet / Outlet**

Single Fused C14 Power Inlet (cold condition),
2.8 or 6.3mm tabs:

01 = PF0011/63
02 = PF0011/28

Twin Fused C14 Power Inlet (cold condition),
2.8 or 6.3mm tabs:

15 = PF0033/63
16 = PF0033/28

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from
filter ordering code see pages 179-180
E.g. BZH01/A0620/10

Combination of Other Components

Neon Indicator:
03 = Red Neon Indicator

Double Pole Switch:
10 = D.P. Switch

Double Pole Neon Switch:
11 = D.P. Red Neon Switch
12 = D.P. Green Neon Switch

Double Pole High Inrush Switch:
13 = D.P. High Inrush Switch

Double Pole Switch marked I/O:
70 = D.P. Switch (I/O)

Double Pole Neon Switch Marked (I/O):
76 = D.P. Red Neon Switch (I/O)
77 = D.P. Green Neon Switch (I/O)

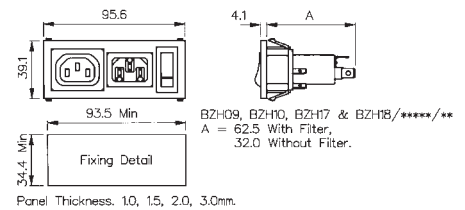
Double Pole High Inrush Switch Marked
(I/O):
78 = D.P. High Inrush Switch (I/O)
B1 = D.P. High Inrush Green Neon Switch
(I/O)

Horizontal Module Arrangement



BZH09/Z0000/01

- ⬡ Inlet/Outlet Combination with 2.8mm or 6.3mm tags
- ⬡ Shuttered or Non-Shuttered Outlet
- ⬡ Single Pole Switch Variations
- ⬡ Filtered Inlet Option
- ⬡ Options of I/O marked switches



How to order -

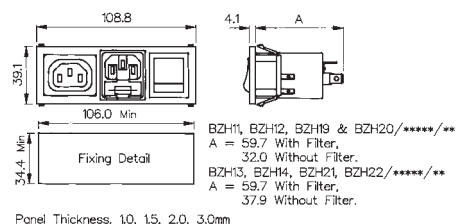
BZH XX	XXXXX	XX
Type of Inlet / Outlet C14 Power Inlet (cold condition) and Sheet F Non-shuttered Power Outlet, 2.8 or 6.3mm tabs: 09 = PX0575/63 + PX0695/63 10 = PX0575/28 + PX0695/28 C14 Power Inlet (cold condition) and Sheet F Shuttered Power Outlet, 2.8 or 6.3mm tabs: 17 = PX0575/63 + PX0783/63 18 = PX0575/28 + PX0783/28	Filtered or Non Filtered Inlet Z0000 = Non Filtered Axxxx = Standard For Filtered inlet use 6th to 9th characters from filter ordering code see page 178 E.g. BZH09/A0120/01	Combination of Other Components Single Pole Switch: 01 = S.P. Switch Single Pole Neon Switch: 02 = S.P. Red Neon Switch 08 = S.P. Green Neon Switch Neon Indicator: 03 = Red Neon Indicator Single Pole High Inrush Switch: 46 = S.P. High Inrush Switch Single Pole Switch Marked I/O: 69 = S.P. Switch (I/O) Single Pole Neon Switch Marked (I/O): 71 = S.P. Red Neon Switch (I/O) 74 = S.P. Green Neon Switch (I/O) Single Pole High Inrush Switch Marked (I/O): 98 = S.P. High Inrush Switch (I/O)

Horizontal Module Arrangement



BZH11/Z0000/10

- Inlet/Outlet Combination with 2.8mm or 6.3mm tags
- Single or Twin Fused Inlet
- Shuttered or Non-Shuttered Outlet
- Double Pole Switch Variations
- Filtered Inlet Option
- Options of I/O marked switches



How to order -

BZH XX**XXXXX****XX****Type of Inlet / Outlet**

Single Fused C14 Power Inlet (cold condition) and Sheet F Power Outlet, 2.8 or 6.3mm tabs:

11 = PF0011/63 + PX0695/63
 12 = PF0011/28 + PX0695/28

Twin Fused C14 Power Inlet (cold condition) and Sheet F Power Outlet, 2.8 or 6.3mm tabs:

13 = PF0033/63 + PX0695/63
 14 = PF0033/28 + PX0695/28

Single Fused C14 Power Inlet (cold condition) and Sheet F Shuttered Power Outlet, 2.8 or 6.3mm tabs:

19 = PF0011/63 + PX0783/63
 20 = PF0011/28 + PX0783/28

Twin Fused C14 Power Inlet (cold condition) and Sheet F Shuttered Power Outlet, 2.8 or 6.3mm tabs:

21 = PF0033/63 + PX0783/63
 22 = PF0033/28 + PX0783/28

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from filter ordering code see pages 179-180
 E.g. BZH11/A0620/10

Combination of Other Components

Neon Indicator:
 D3 = Red Neon Indicator

Double Pole Switch:
 10 = D.P. Switch

Double Pole Neon Switch:
 11 = D.P. Red Neon Switch
 12 = D.P. Green Neon Switch

Double Pole High Inrush Switch:
 13 = D.P. High Inrush Switch

Double Pole Switch Marked I/O:
 70 = D.P. Switch (I/O)

Double Pole Neon Switch Marked (I/O):
 76 = D.P. Red Neon Switch (I/O)
 77 = D.P. Green Neon Switch (I/O)

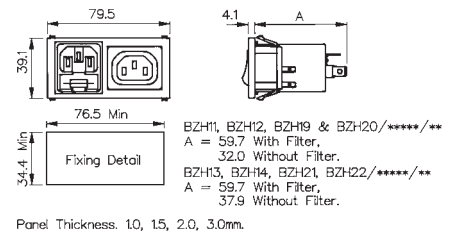
Double Pole High Inrush Switch Marked (I/O):
 78 = D.P. High Inrush Switch (I/O)
 B1 = D.P. High Inrush Green Neon Switch (I/O)

Horizontal Module Arrangement



BZH11/Z0000/00

- Fused Inlet/Outlet
- Combination with 2.8mm or 6.3mm tabs
- Filtered Inlet Option
- Single or Twin Fused



How to order -

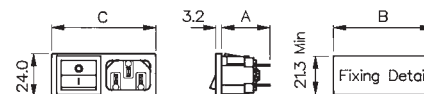
BZH XX	/	XXXXX	/	XX
Type of Inlet / Outlet		Filtered or Non Filtered Inlet		Combination of Other Components
Single Fused C14 Power Inlet (cold condition) and Sheet F Non-shuttered Power Outlet, 2.8 or 6.3mm tabs:		Z0000 = Non Filtered		None
11 = PF0011/63 + PX0695/63 12 = PF0011/28 + PX0695/28		Axxxx = Standard		00 = None
Twin Fused C14 Power Inlet (cold condition) and Sheet F Non-shuttered Power Outlet, 2.8 or 6.3mm tabs:		For Filtered inlet use 6th to 9th characters from filter ordering code see pages 179-180 E.g. BZH11/A0620/00		
13 = PF0033/63 + PX0695/63 14 = PF0033/28 + PX0695/28				
Single Fused C14 Power Inlet (cold condition) and Sheet F Shuttered Power Outlet, 2.8 or 6.3mm tabs:				
19 = PF0011/63 + PX0783/63 20 = PF0011/28 + PX0783/28				
Twin Fused C14 Power Inlet (cold condition) and Sheet F Shuttered Power Outlet, 2.8 or 6.3mm tabs:				
21 = PF0033/63 + PX0783/63 22 = PF0033/28 + PX0783/28				

Minimum Combined Bezel Size



BZM27/Z0000/57B

- ⬡ Inlet with 2.8, 4.8 or 6.3mm tags
- ⬡ Horizontal Module Arrangement
- ⬡ Single and Double Pole Switch Variations
- ⬡ Filtered Inlet Option



Panel Thickness 1.0, 1.5, 2.0, 3.0mm

 BZM27/*****/*** } A = 63.5 With Filter.
 BZM28/*****/*** } 29.1 Without Filter.

 B = 54.9 With D.P. Switch. 45.9 With S.P. Switch.
 C = 57.5 With D.P. Switch. 48.5 With S.P. Switch.

How to order -

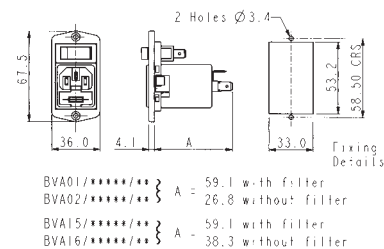
BZM XX / XXXXX / XX / X			
Type of Inlet / Outlet	Filtered or Non Filtered Inlet	Switch Variation	Panel Thickness
C14 Power Inlet (cold condition), 6.3, 4.8 & 2.8mm tabs: 27 = PX0575/63 42 = PX0575/48 28 = PX0575/28	Z0000 = Non Filtered Axxxx = Standard For Filtered inlet use 6th to 9th characters from filter ordering code see page 178 E.g. BZM27/A0120/57B	Single Pole Switch, 4.8mm or solder tab, marked I/O: 53 = S.P. Switch, 4.8mm tab (I/O) 54 = S.P. Switch, solder tab (I/O) Single Pole Illuminated Switch, 4.8mm or solder tab: 55 = S.P. Switch Illum. Red, 4.8mm tab 61 = S.P. Switch Illum. Green, 4.8mm tab 56 = S.P. Switch Illum. Red, solder tab 62 = S.P. Switch Illum. Green, solder tab Double Pole Switch, 4.8mm or solder tab, marked I/O: 57 = D.P. Switch, 4.8mm tab (I/O) 58 = D.P. Switch, solder tab (I/O) Double Pole Illuminated Switch, 4.8mm or solder tab: 59 = D.P. Switch Illum. Red, 4.8mm tab 63 = D.P. Switch Illum. Green, 4.8mm tab 60 = D.P. Switch Illum. Red, solder tab 64 = D.P. Switch Illum. Green, solder tab Double Pole High Inrush, 4.8mm tabs: 65 = D.P. High Inrush Switch, 4.8mm tabs (S.P. format) Double Pole High Inrush, 4.8mm tabs, marked I/O: 68 = D.P. High Inrush Switch, 4.8mm tabs, I/O (S.P. format) Single Pole Illuminated Switch, 4.8mm or solder tab, Marked I/O: A1 = S.P. Switch Illum. Red, 4.8mm tab (I/O) A5 = S.P. Switch Illum. Green, 4.8mm tab (I/O) A2 = S.P. Switch Illum. Red, solder tab (I/O) A6 = S.P. Switch Illum. Green, solder tab (I/O) Double Pole Illuminated Switch, 4.8mm or solder tab, Marked I/O: A3 = D.P. Switch Illum. Red, 4.8mm tab A7 = D.P. Switch Illum. Green, 4.8mm tab A4 = D.P. Switch Illum. Red, solder tab A8 = D.P. Switch Illum. Green, solder tab	1.0mm = A 1.5mm = B 2.0mm = C 3.0mm = D

Vertical Module Arrangement



BVA01/Z0000/02

- Fused Inlet with 2.8mm or 6.3mm tags
- Screw Fixing to Panel
- Single Pole Switch Variations
- Filtered Inlet Option
- Options of I/O marked switches

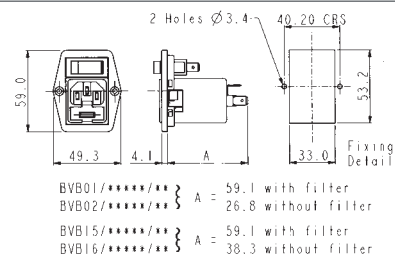


Vertical Module Arrangement



BVB01/Z0000/01

- Fused Inlet with 2.8mm or 6.3mm tags
- Screw Fixing to Panel
- Single Pole Switch Variations
- Filtered Inlet Option
- Options of I/O marked switches



How to order -

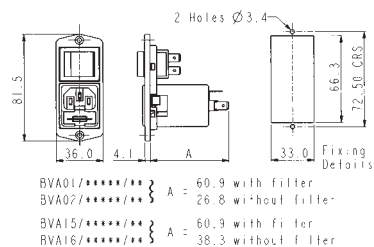
BV X	XX	/	XXXXX	/	XX
Flange Type	Type of Inlet / Outlet		Filtered or Non Filtered Inlet		Combination of Other Components
A = Top fixing B = Side fixing	Single Fused C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs: 01 = PF0011/63 02 = PF0011/28 Twin Fused C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs: 15 = PF0033/63 16 = PF0033/28		Z0000 = Non Filtered Axxxx = Standard For Filtered inlet use 6th to 9th characters from filter ordering code see pages 179-180 E.g. BVA01/A0620/01		Single Pole Switch: 01 = S.P. Switch Single Pole Neon Switch: 02 = S.P. Red Neon Switch 08 = S.P. Green Neon Switch Neon Indicator: 03 = Red Neon Indicator Single Pole High Inrush Switch: 46 = S.P. High Inrush Switch Single Pole Switch Marked I/O: 69 = S.P. Switch (I/O) Single Pole Neon Switch Marked (I/O): 71 = S.P. Red Neon Switch (I/O) 74 = S.P. Green Neon Switch (I/O) Single Pole High Inrush Switch Marked (I/O): 98 = S.P. High Inrush Switch (I/O)

Vertical Module Arrangement



BVA01/Z0000/10

- Fused Inlet with 2.8mm or 6.3mm tags
- Screw Fixing to Panel
- Double Pole Switch Variations
- Filtered Inlet Option
- Options of I/O marked switches

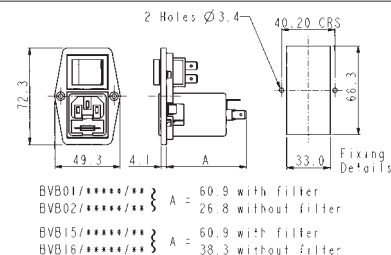


Vertical Module Arrangement



BVB01/Z0000/11

- Fused Inlet with 2.8mm or 6.3mm tags
- Screw Fixing to Panel
- Double Pole Switch Variations
- Filtered Inlet Option
- Options of I/O marked switches



How to order -

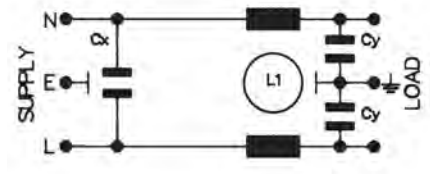
BV X XX / XXXXX / XX			
Flange Type	Type of Inlet / Outlet	Filtered or Non Filtered Inlet	Combination of Other Components
A = Top fixing B = Side fixing	Fused C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs: 01 = PF0011/63 02 = PF0011/28 Twin Fused C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs: 15 = PF0033/63 16 = PF0033/28	Z0000 = Non Filtered Axxxx = Standard For Filtered inlet use 6th to 9th characters from filter ordering code see pages 179-180 E.g. BVA01/A0620/10	Neon Indicator: D3 = Red Neon Indicator Double Pole Switch: 10 = D.P. Switch Double Pole Neon Switch: 11 = D.P. Red Neon Switch 12 = D.P. Green Neon Switch Double Pole High Inrush Switch: 13 = D.P. High Inrush Switch Double Pole Switch Marked I/O: 70 = D.P. Switch (I/O) Double Pole Neon Switch Marked (I/O): 76 = D.P. Red Neon Switch (I/O) 77 = D.P. Green Neon Switch (I/O) Double Pole High Inrush Switch Marked (I/O): 78 = D.P. High Inrush Switch (I/O) B1 = D.P. High Inrush Green Neon Switch (I/O)

EMI Filter Options



BVA01/Z0000/10

- For Polysnap modules BZV03, BZV04, BZV09, BZV10, BZV17, BZV18, BZH09, BZH10, BZH17, BZH18, BZM27, BZM28
- PX0575 style IEC inlet
- Using PS01/A style filter
- Standard Attenuation Filter



How to order -

B XXXX /	A	XX	X	X	/ XX
Polysnap Part No.	Filter Type	Rating	L/C Circuit	Additional Components	Polysnap Part No.
From Polysnap Selection	A = Standard	01 = 1A 03 = 3A 06 = 6A 10 = 10A	1 = Version 1 2 = Version 2 3 = Version 3	0 = None	From Polysnap Selection

Rating	Version	L1	Cx	Cy
1 AMP	1	2 x 2.8mH	1 x 15nF	2 x 2.2nF
"	2	2 x 10mH	1 x 15nF	2 x 2.2nF
"	3	2 x 10mH	1 x 47nF	2 x 2.2nF
3 AMP	1	2 x 0.75mH	1 x 15nF	2 x 2.2nF
"	2	2 x 1.8mH	1 x 15nF	2 x 2.2nF
"	3	2 x 1.8mH	1 x 47nF	2 x 2.2nF
6 AMP	1	2 x 0.3mH	1 x 15nF	2 x 2.2nF
"	2	2 x 0.7mH	1 x 15nF	2 x 2.2nF
"	3	2 x 0.7mH	1 x 47nF	2 x 2.2nF
10 AMP	1	2 x 0.17mH	1 x 15nF	2 x 2.2nF
"	2	2 x 0.35mH	1 x 15nF	2 x 2.2nF
"	3	2 x 0.17mH	1 x 47nF	2 x 2.2nF

Part No. Example

BZV03/A0120/02

BZV style Polysnap module with PX0575 IEC power inlet, filter rated at 1 amp, L/C circuit version 2 (L1 = 2 x 10mH, Cx = 1 x 15nF, Cy = 2 x 2.2nF) 6.3mm tabs and single pole red neon switch.

Filter Specification

Max. Working Voltage:	250V a.c. 50-400Hz
Earth Leakage Current:	<0.35mA (250V, 50Hz)
Temperature Range:	-25°C to +85°C
Max. Ambient Temp.: (@ Full Load)	40°C (derate linearly to 0A @ 85°C)
Test Voltage:	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral

Approvals:



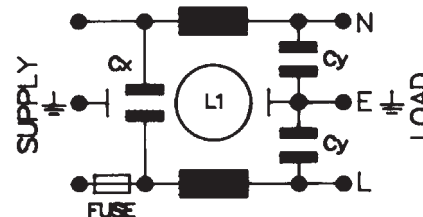
Attenuation Curves:

See PS01/A filter, page 183

EMI Filter Options



- For Polysnap modules BZV01, BZV02, BZH01, BZH02, BZH11, BZH12, BZH19, BZH20, BVA01, BVA02, BVB01, BVB02
- PF0011 style single fuse IEC inlet
- Using PS21/A style filter
- Standard Attenuation Filter



How to order -

B XXXX	/	A	XX	X	X	/	XX
Polysnap Part No.		Filter Type	Rating	L/C Circuit	Additional Components		Polysnap Part No.
From Polysnap Selection		A = Standard	01 = 1A 03 = 3A 06 = 6A	2 = Version 2 3 = Version 3	0 = None		From Polysnap Selection

Rating	Version	L1	Cx	Cy
1 AMP	1			
"	2			
"	3	2 x 12mH	1 x 47nF	2 x 2.2nF
3 AMP	1			
"	2	2 x 1.8mH	1 x 15nF	2 x 2.2nF
"	3	2 x 6.5mH	1 x 47nF	2 x 2.2nF
6 AMP	1			
"	2	2 x 0.7mH	1 x 15nF	2 x 2.2nF
"	3	2 x 2mH	1 x 47nF	2 x 2.2nF
10 AMP	1			
"	2			
"	3			

Part No. Example

BZV01/A0630/01

BZV style Polysnap module with PF0011 single fused (5 x 20mm) IEC power inlet, filter rated at 6 amp, L/C circuit version 3 (L1 = 2 x 2.0mH, Cx = 1 x 47nF, Cy = 2 x 2.2nF), 6.3mm tabs and single pole switch.

Filter Specification

Max. Working Voltage:	250V a.c. 50-400Hz
Earth Leakage Current:	<0.35mA (250V. 50Hz)
Temperature Range:	-25°C to +85°C
Max. Ambient Temp.:	40°C (derate linearly to 0A @ 85°C)
(@ Full Load)	
Test Voltage:	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral

Approvals:



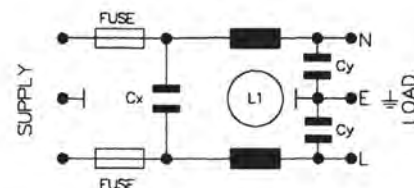
Attenuation Curves:

See PS21/A filter, page 187

EMI Filter Option



- For Polysnap modules BZV15, BZV16, BZH13, BZH14, BZH15, BZH16, BZH21, BZH22, BVA15, BVA16, BVB15, BVB16
- PF0033 style twin fuse IEC inlet
- Using PS26/A filter
- Standard Attenuation Filter



How to order -

B XXXX /	A	XX	X	X	/ XX
Polysnap Part No.	Filter Type	Rating	L/C Circuit	Additional Components	Polysnap Part No.
From Polysnap Selection	A = Standard	02 = 2A 04 = 4A	2 = Version 2	0 = None	From Polysnap Selection

Rating	Version	L1	Cx	Cy
1 AMP	1			
"	2			
"	3	2 x 1.8mH	1 x 15nF	2 x 2.2nF
4 AMP	1			
"	2	2 x 0.7mH	1 x 15nF	2 x 2.2nF
"	3			

Part No. Example

BZH13/A0420/00

BZH style Polysnap module with PF0033 twin fused (5 x 20mm) IEC power inlet, filter rated at 4 amps, L/C circuit version 2 (L1 = 2 x 0.7mH, Cx = 1 x 15nF, Cy = 2 x 2.2nF) 6.3mm tabs and no additional components.

Filter Specification

Max. Working Voltage:	250V a.c. 50-400Hz
Earth Leakage Current:	<0.35mA (250V, 50Hz)
Temperature Range:	-25°C to +85°C
Max. Ambient Temp.: (@ Full Load)	40°C (derate linearly to 0A @ 85°C)
Test Voltage:	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral

Approvals:



Attenuation Curves:

See PS26/A filter, page 189



Designed to reduce conducted mains borne EMI, this extensive range provides many solutions to EMI problems. To meet individual design requirements the filters are available with two attenuation options – standard and medical. Current ratings are from 1 to 10 amps with single or twin fused types also available.

The choice of mounting options will suit most applications with flange, snap to panel or base/bulkhead.

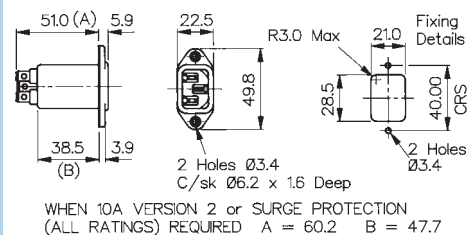
Flange and Snap Fit	
PS00 Series	132 - 133
PS01 Series	132 - 133
Base Mounting and Bulkhead	
PS02 Series	184-185
PS03 Series	184-185
Fused Inlets	
PS20 Series	186 - 187
PS21 Series	186 - 187
PS25 Series	188 - 189
PS26 Series	188 - 189

Panel Mounting



Flange PS00/A

- 1, 3, 6 or 10 Amp Current Rating
- 3 Alternative Circuits
- No additional components
- 6.3mm tabs

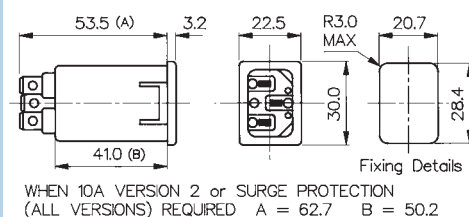


Snap Fit

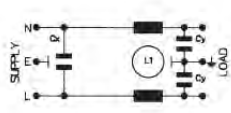


Snap Fit PS01/A

- 1, 3, 6 or 10 Amp Current Rating
- 3 Alternative Circuits
- No additional components
- 6.3mm tabs
- 1, 1.5, 2 or 3mm panels



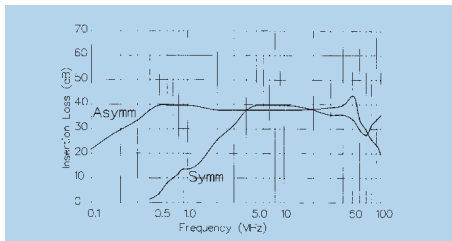
How to order -

PS00/A or PS01/A	XX	X	0	/	63	XX	
Series	Rating	L/C Circuit	Additional Components	Tag Type and Configuration	Panel Thickness	Circuit Board Diagram	
PS00/A	01 = 1A	1 = Version 1	0 = None	63 = 6.3mm tabs	00 = Flange		
PS01/A	03 = 3A	2 = Version 2			10 = 1.0mm		
	06 = 6A	3 = Version 3			15 = 1.5mm		
	10 = 10A				20 = 2.0mm		
					30 = 3.0mm		

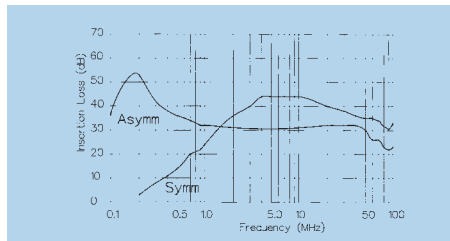
Specification	PS00/Axxxx/xx00	PS01/Axxxx/xxxx	Part No. Example
Max. Working Voltage:	250V a.c. 50-400Hz	250V a.c. 50-400Hz	PS00/A0120/6300
Earth Leakage Current:	<0.35mA (250V, 50Hz)	<0.35mA (250V, 50Hz)	PS00 series, flange fitting, standard filtered IEC power inlet, rated at 1 ampere. L/C circuit version 2, i.e. L1 = 2 x 10mH, Cx = 15nF, Cy = 2 x 2.2nF. 6.3mm tabs.
Temperature Range:	-25°C to +85°C	-25°C to +85°C	
Max. Ambient Temp: (@ Full Load)	40°C (derate linearly to 0A @ 85°C)	40°C (derate linearly to 0A @ 85°C)	
Test Voltage:	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	
Approvals:			
Mating Connectors:	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588	
RoHS	Compliant	Compliant	

Rating	Version	L1	Cx	Cy
1 AMP	1	2 x 2.8mH	1 x 15nF	2 x 2.2nF
"	2	2 x 10mH	1 x 15nF	2 x 2.2nF
"	3	2 x 10mH	1 x 47nF	2 x 2.2nF
3 AMP	1	2 x 0.75mH	1 x 15nF	2 x 2.2nF
"	2	2 x 1.8mH	1 x 15nF	2 x 2.2nF
"	3	2 x 1.8mH	1 x 47nF	2 x 2.2nF
6 AMP	1	2 x 0.3mH	1 x 15nF	2 x 2.2nF
"	2	2 x 0.7mH	1 x 15nF	2 x 2.2nF
"	3	2 x 0.7mH	1 x 47nF	2 x 2.2nF
10 AMP	1	2 x 0.17mH	1 x 15nF	2 x 2.2nF
"	2	2 x 0.35mH	1 x 15nF	2 x 2.2nF
"	3	2 x 0.17mH	1 x 47nF	2 x 2.2nF

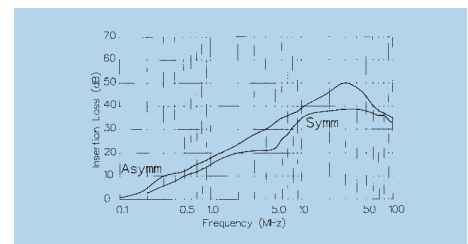
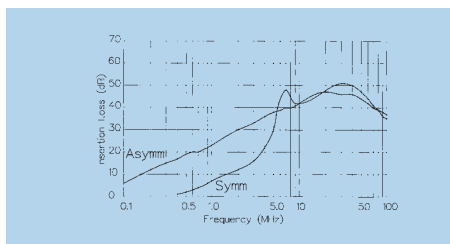
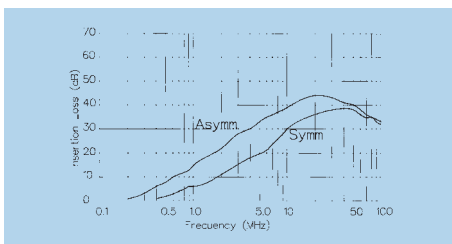
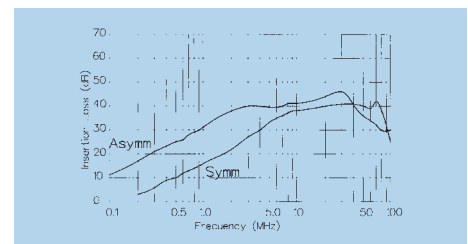
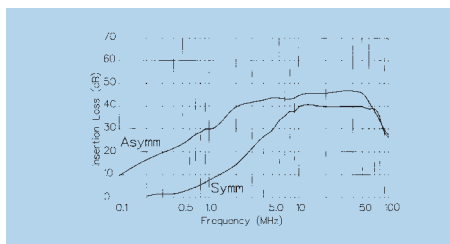
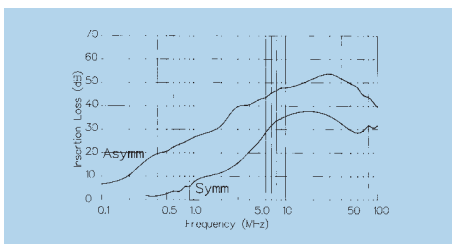
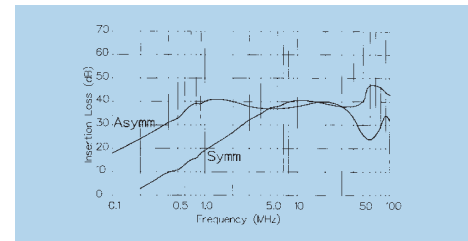
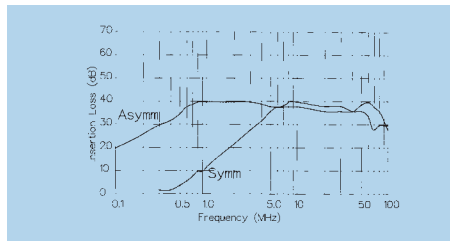
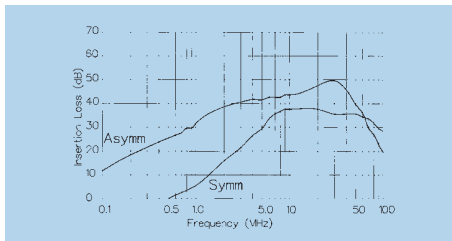
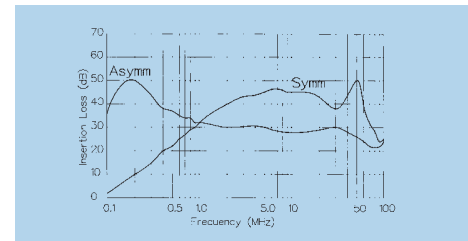
Version 1



Version 2



Version 3

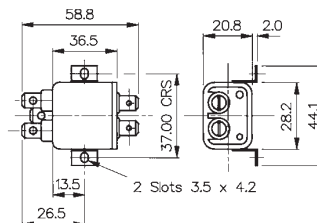


Base Mounting



Base Mounting PS02/A

- 1, 3, 6 or 10 Amp Current Rating
- 3 Alternative Circuits
- No additional components
- 6.3mm tabs

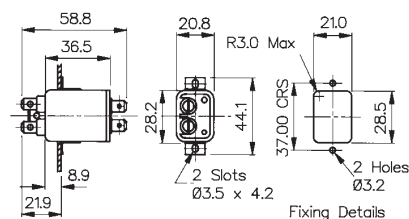


Bulkhead Mounting



Bulkhead Mounting PS03/A

- 1, 3, 6 or 10 Amp Current Rating
- 3 Alternative Circuits
- No additional components
- 6.3mm tabs



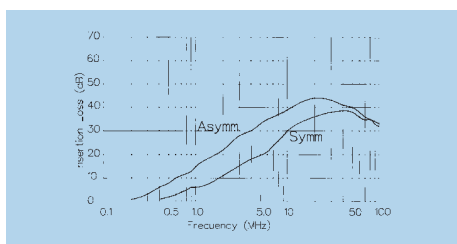
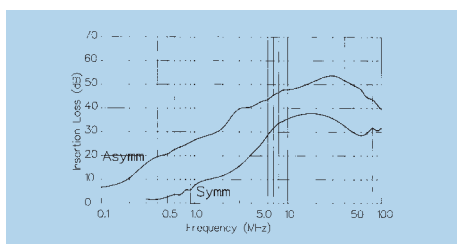
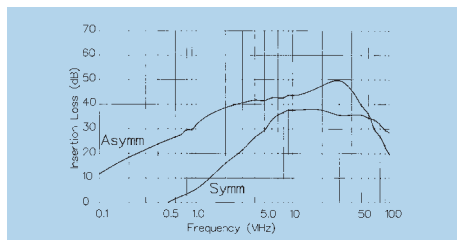
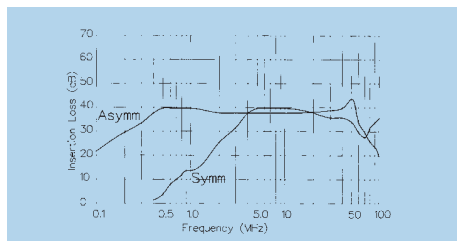
How to order -

PS02/A or PS03/A	XX	X	0	/	63
Series	Rating	L/C Circuit	Additional Components	Tag Type and Configuration	Circuit Board Diagram
PS02/A	01 = 1A	1 = Version 1	0 = None	63 = 6.3mm tabs	
PS03/A	03 = 3A	2 = Version 2			
	06 = 6A	3 = Version 3			
	10 = 10A				

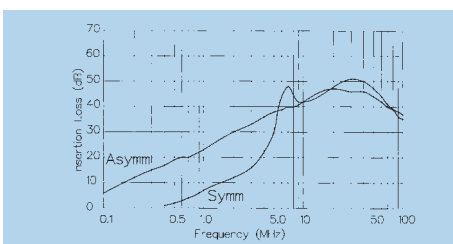
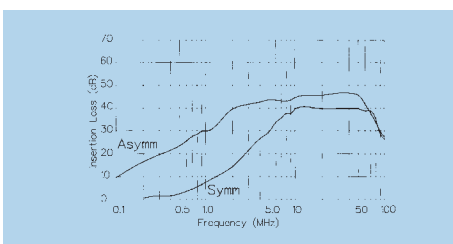
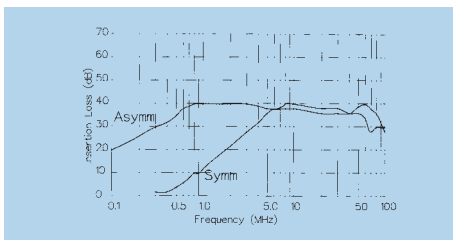
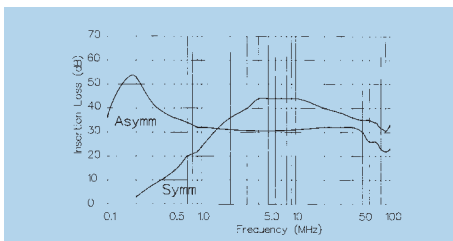
Specification	PS02/Axxxx/xx	PS03/Axxxx/xx	Part No. Example
Max. Working Voltage:	250V a.c. 50-400Hz	250V a.c. 50-400Hz	PS02/A0120/63
Earth Leakage Current:	<0.35mA (250V, 50Hz)	<0.35mA (250V, 50Hz)	PS02 series, standard base mounting filter, rated at 3 amperes. L/C circuit version 1, i.e. L1 = 2 x 0.75mH, Cx = 15nF, Cy = 2 x 2.2nF with 2.8mm tabs.
Temperature Range:	-25°C to +85°C	-25°C to +85°C	
Max. Ambient Temp: (@ Full Load)	40°C (derate linearly to 0A @ 85°C)	40°C (derate linearly to 0A @ 85°C)	
Test Voltage:	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	
Approvals:			
RoHS	Compliant	Compliant	

Rating	Version	L1	Cx	Cy
1 AMP	1	2 x 2.8mH	1 x 15nF	2 x 2.2nF
"	2	2 x 10mH	1 x 15nF	2 x 2.2nF
"	3	2 x 10mH	1 x 47nF	2 x 2.2nF
3 AMP	1	2 x 0.75mH	1 x 15nF	2 x 2.2nF
"	2	2 x 1.8mH	1 x 15nF	2 x 2.2nF
"	3	2 x 1.8mH	1 x 47nF	2 x 2.2nF
6 AMP	1	2 x 0.3mH	1 x 15nF	2 x 2.2nF
"	2	2 x 0.7mH	1 x 15nF	2 x 2.2nF
"	3	2 x 0.7mH	1 x 47nF	2 x 2.2nF
10 AMP	1	2 x 0.17mH	1 x 15nF	2 x 2.2nF
"	2	2 x 0.35mH	1 x 15nF	2 x 2.2nF
"	3	2 x 0.17mH	1 x 47nF	2 x 2.2nF

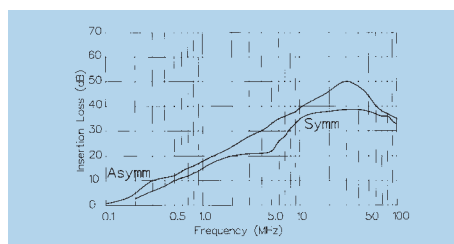
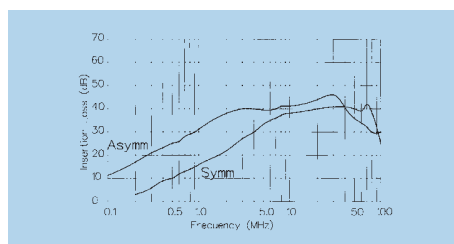
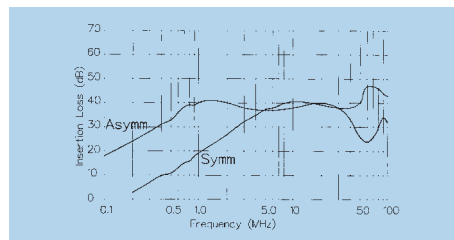
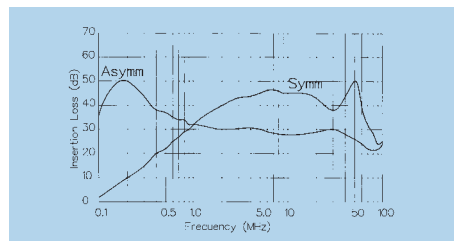
Version 1



Version 2



Version 3

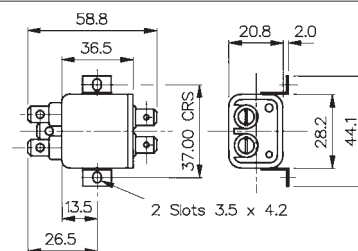


Panel Mounting



PS20/A

- 1, 3, or 6 Amp Current Rating
- Single Fused
- 2 Alternative Circuits
- 6.3mm tabs

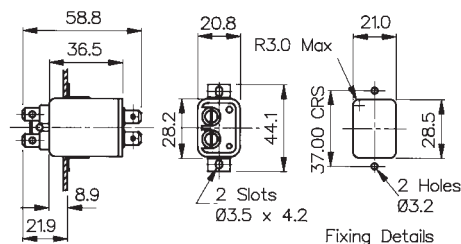


Snap Fit

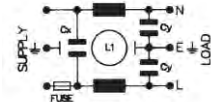


PS21/A

- 1, 3, or 6 Amp Current Rating
- Single Fused
- 2 Alternative Circuits
- 6.3mm tabs
- 1, 1.5, 2 or 3mm panels



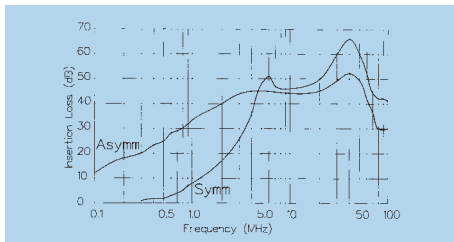
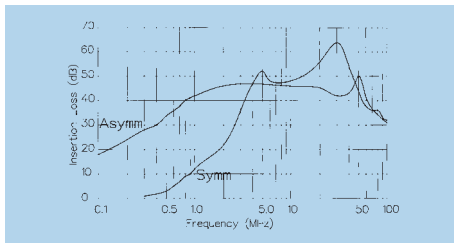
How to order -

PS02/A or PS03/A							XX	X	0	/	63	/	XX
Series	Rating	L/C Circuit	Additional Components	Tag Type and Configuration	Panel Thickness	Circuit Board Diagram							
PS00/A	01 = 1A	2 = Version 2	0 = None	63 = 6.3mm tabs	00 = Flange								
PS01/A	03 = 3A	3 = Version 3			10 = 1.0mm								
	06 = 6A				15 = 1.5mm								
					20 = 2.0mm								
					30 = 3.0mm								

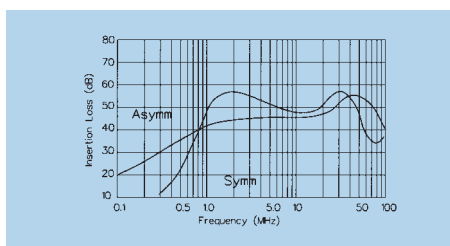
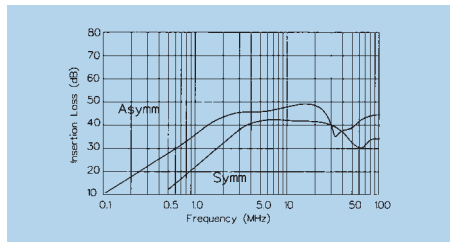
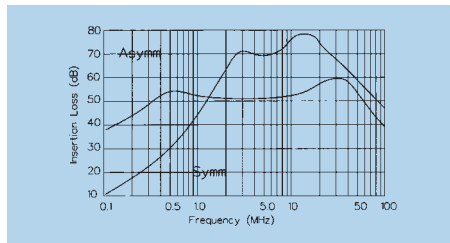
Specification	PS20/Axxx0/xx00	PS21/Axxx0/xxxx	Part No. Example
Max. Working Voltage:	250V a.c. 50-400Hz	250V a.c. 50-400Hz	PS20/A0620/63
Earth Leakage Current:	<0.35mA (250V, 50Hz)	<0.35mA (250V, 50Hz)	PS20 series, flange fitting, standard filtered IEC power inlet, single fused, rated at 6 amperes. L/C circuit version 2, i.e L1 = 2 x 0.7mH, Cx = 1 x 15nF, Cy = 2 x 2.2nF. 6.3mm tabs.
Temperature Range:	-25°C to +85°C	-25°C to +85°C	
Max. Ambient Temp: (@ Full Load)	40°C (derate linearly to 0A @ 85°C)	40°C (derate linearly to 0A @ 85°C)	
Test Voltage:	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	
Approvals:			
RoHS	Compliant	Compliant	

Rating	Version	L1	Cx	Cy
1 AMP	1			
"	2			
"	3	2 x 10mH	1 x 47nF	2 x 2.2nF
3 AMP	1			
"	2	2 x 1.8mH	1 x 15nF	2 x 2.2nF
"	3	2 x 6.5mH	1 x 47nF	2 x 2.2nF
6 AMP	1			
"	2	2 x 0.7mH	1 x 15nF	2 x 2.2nF
"	3	2 x 2mH	1 x 47nF	2 x 2.2nF

Version 2



Version 3

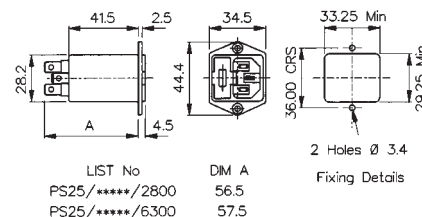


Base Mounting



PS25/A

- 2 or 4 Amp Current Rating
- Twin Fused
- No additional components
- 6.3mm tabs

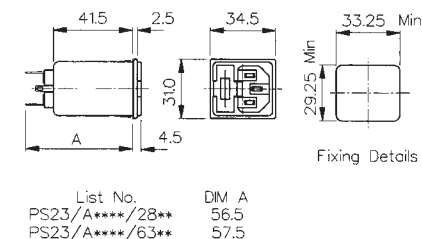


Snap Fit

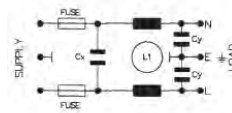


PS26/A

- 2 or 4 Amp Current Rating
- Twin Fused
- No additional components
- 6.3mm tabs
- 1, 1.5, 2 or 3mm panels



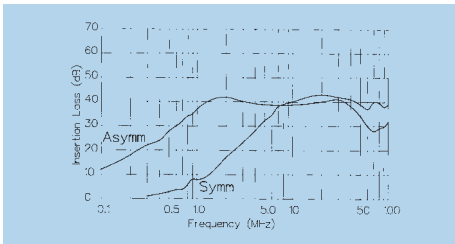
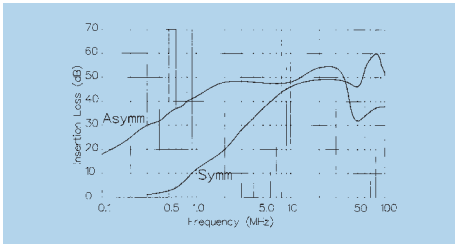
How to order -

PS25/A or PS26/A	X	2	0	/	63	/	XX
Series	Rating	L/C Circuit	Additional Components	Tag Type and Configuration	Panel Thickness	Circuit Board Diagram	
PS25/A	02 = 2A	2 = Version 2	0 = None	63 = 6.3mm tabs	00 = Flange		
PS26/A	04 = 4A				10 = 1.0mm		
					15 = 1.5mm		
					20 = 2.0mm		
					30 = 3.0mm		

Specification	PS25/Axx2x/xx00	PS26/Axx2x/xxxx	Part No. Example
Max. Working Voltage:	250V a.c. 50-400Hz	250V a.c. 50-400Hz	PS20/A0620/63
Earth Leakage Current:	2.5W per fuse	2.5W per fuse	PS20 series, flange fitting, standard filtered IEC power inlet, single fused, rated at 6 amperes. L/C circuit version 2, i.e L1 = 2 x 0.7mH, Cx = 1 x 15nF, Cy = 2 x 2.2nF. 6.3mm tabs.
Temperature Range:	<0.35mA (250V, 50Hz)	<0.35mA (250V, 50Hz)	
Max. Ambient Temp: (@ Full Load)	40°C (derate linearly to 0A @ 85°C)	40°C (derate linearly to 0A @ 85°C)	
Test Voltage:	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	
Approvals:			
Mating Connectors	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588	
Accessories	P.No. 14340 (see page 151)	P.No. 14340 (see page 151)	
RoHS	Compliant	Compliant	

Rating	Version	L1	Cx	Cy
1 AMP	1			
"	2	2 x 1.8mH	1 x 15nF	2 x 2.2nF
"	3			
3 AMP	1			
"	2	2 x 0.7mH	1 x 15nF	2 x 2.2nF
"	3			

Version 2



Bulgin's **extensive range** of fuseholders are **designed** to give the degree of **protection** demanded in today's sophisticated electronic equipment. Carrying world-wide safety approvals from UL, VDE, CSA and IMQ, all types are **manufactured** from **high grade** flame retardant **nylon** and **polyester** materials.

Designed primarily for 5 x 20mm and 6.3 x 32mm size fuses with protection against shock to categories PC1, PC2 and PC3. There's a choice of styles for in-line, PCB mounting and panel mounting (screw or snap fit) with terminal options for solder, 2.8mm, 4.8mm or 6.3mm tabs or PC spools. Dust and waterproof designs provide a front of panel seal to IP68 in both 5 x 20mm and 6.3 x 32mm size fuses.

Fuse carrier styles include captive drawer, screw cap - with screw driver release, bayonet cap - with screw driver release and screw cap - with finger release.

Panel Mounting	192-197
IP68 Panel Mounting	198
IP66 Panel Mounting	199
PC Mounting	200-201
Base Mounting	202-203
In-line	204



Category PC1:

No integral protection against electric shock. If required, Designers/ Manufacturers must provide additional protection against electric shock on equipment.

Category PC2:

With integral protection against electric shock. Fuseholders shall have live parts inaccessible to IEC 60529 Standard Test Finger, when fully assembled, without fuse carrier or fuse in place and when fuse carrier, with fuse is being inserted or withdrawn.

Category PC3:

With integral protection against electric shock. Fuseholders shall have live parts inaccessible to IEC 60529 1mm dia. rigid test wire when fully assembled, without fuse carrier or fuse in place and when fuse carrier, with fuse, is being inserted or withdrawn.

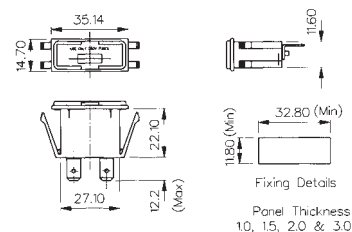


Snap Fit to Panel



FX0430/63

- Protection Category PC3
- Fuse Size 5 x 20mm
- Panel Sizes 1.0, 1.5, 2.0 and 3.0mm
- Captive Drawer
- 10A, 250V (16A, 250V UL)
- 2.8, 4.8 or 6.3 tabs

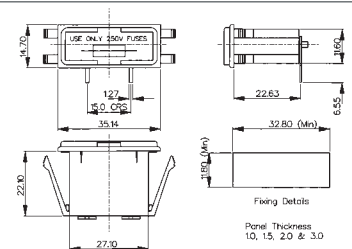


Snap Fit to Panel



FX0430/PC

- Protection Category PC3
- Fuse Size 5 x 20mm
- Panel Sizes 1.0, 1.5, 2.0 and 3.0mm
- Captive Drawer
- 10A, 250V (16A, 250V UL)
- PC spills

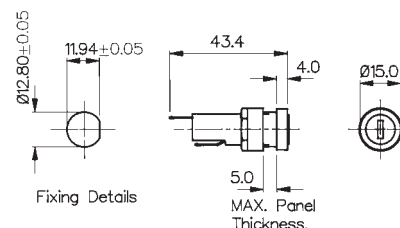


Panel Mount



FX0460

- Protection Category PC3
- Fuse Size 5 x 20mm
- Screw Cap/Screwdriver Release
- Captive Fuse Carrier
- 10A, 250V (16A, 250V UL)



Specifications	FX0430/Termination	FX0430/PC	FX0460
Fuse Size:	5 x 20mm	5 x 20mm	5 x 20mm
Fuse Carrier:	Captive Drawer	Captive Drawer	Screw cap/Screwdriver release
Terminations:	/28 (2.8mm solder), /48 (4.8mm tab), /63 (6.3mm tab)	/PC (PC spills)	Solder tags
Max. Rating:	10A, 250V (16A, 250V a.c. UL)	10A, 250V (16A, 250V a.c. UL)	10A, 250V (16A, 250V a.c. UL)
Max. Power Dissipation:	2.5W (@ 23°C)	2.5W (@ 23°C)	1.6W (@ 23°C)
Insulation Resistance:	>10MΩ @ 500V d.c.	>10MΩ @ 500V d.c.	>10MΩ @ 500V d.c.
A.C. Breakdown:	>2kV	>2kV	>2kV
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Operating Temp:	-20°C to +85°C (ambient air temp + fuse temp rise)	-20°C to +85°C (ambient air temp + fuse temp rise)	-20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings:			
Body/Drawer:	Nylon UL94V-0 rated	Nylon UL94V-0 rated	Polyester UL94V-0 rated
Cap:			Nylon UL94V-0 rated
Nut:			Glass Filled Nylon UL94V-0 rated
Contacts:	Contact tags: Brass, Tin Plated Fuse Clips: Phosphor Bronze, Nickel Plated	Contact tags: Brass, Tin Plated Fuse Clips: Phosphor Bronze, Nickel Plated	Brass, Silver Plated
Approvals:			
Accessories:			P.No. 11327 (See page 205)
Note:			See page P201 (type FX0416) for PC version
RoHS	Compliant	Compliant	Compliant

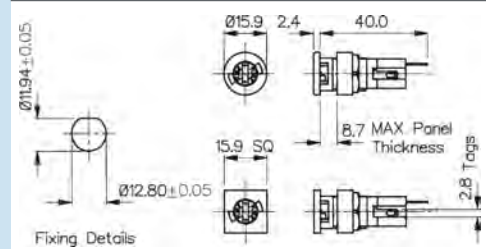
Panel Mount



FX0357

FX0359

- Protection Category PC2
- Fuse Size 5 x 20mm
- Bayonet Cap/Screwdriver Release
- 10A, 250V (16A, 250V UL)



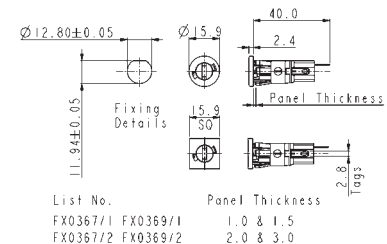
Snap Fit to Panel



FX0367

FX0369

- Protection Category PC2
- Fuse Size 5 x 20mm
- Panel Sizes 1.0 & 1.5 and 2.0 & 3.0mm
- Bayonet Cap/Screwdriver Release
- 10A, 250V (16A, 250V UL)



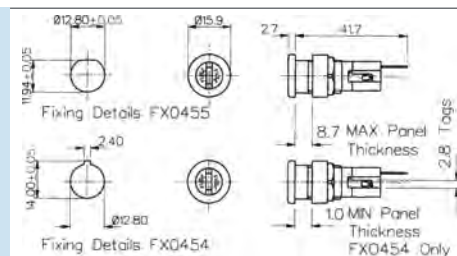
Specifications	FX0357, FX0359	FX0367/Panel, FX0369/Panel
Fuse Size:	5 x 20mm	5 x 20mm
Panel Size:		/1 (1.0-1.5mm panel, black sleeve) /2 (2.0-3.0mm panel, grey sleeve)
Fuse Carrier:	Bayonet cap/Screwdriver release	Bayonet cap/Screwdriver release
Terminations:	Solder tags	Solder tags
Max. Rating:	10A, 250V (16A, 250V a.c. UL)	10A, 250V (16A, 250V a.c. UL)
Max. Power Dissipation:	2.5W (@ 23°C)	2.5W (@ 23°C)
Insulation Resistance:	>10 ² MΩ @ 500V d.c.	>10 ² MΩ @ 500V d.c.
A.C. Breakdown:	7kV @ 50Hz	7kV @ 50Hz
Contact Resistance:	<10mΩ	<10mΩ
Operating Temp:	-20°C to +85°C (ambient air temp + fuse temp rise)	-20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings:		
Body:	Polyester UL94V-0 rated	Polyester UL94V-0 rated
Cap:	Nylon UL94V-0 rated	Nylon UL94V-0 rated
Nut:	Glass Filled Nylon UL94V-0 rated	
Contacts:	Brass, Silver Plated	Brass, Silver Plated
Approvals:		
Accessories:	P.No. 11327 (See page 206)	P.No. 11327 (See page 205)
RoHS	Compliant	Compliant

Panel Mount



FX0454, FX0455

- Protection Category PC2
- Fuse Size 5 x 20mm
- Screw Cap/Screwdriver Release
- Keyway Panel Cutout (FX0454)
- D Panel Cutout (FX0455)
- 10A, 250V (16A, 250V UL)

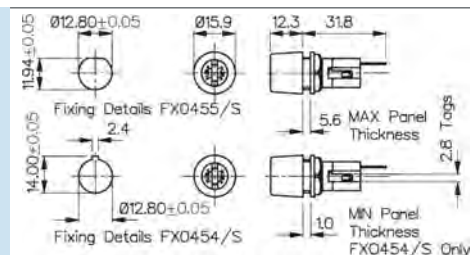


Panel Mount



FX0454/S, FX0455/S

- Protection Category PC2
- Fuse Size 5 x 20mm
- Screw Cap/Screwdriver Release
- High Profile Bezel
- Keyway Panel Cutout (FX0454/S)
- D Panel Cutout (FX0455/S)
- 10A, 250V (16A, 250V UL)

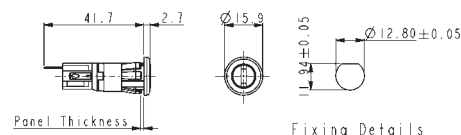


Snap Fit to Panel



FX0458

- Protection Category PC2
- Fuse Size 5 x 20mm
- Panel Sizes 1.0 & 1.5 and 2.0 & 3.0mm
- Screw Cap/Screwdriver Release
- 10A, 250V (16A, 250V UL)



List No.	Panel Thickness
FX0458/1	1.0 & 1.5
FX0458/2	2.0 & 3.0

Specifications	FX0454, FX0455	FX0454/S, FX0455/S	FX0458
Fuse Size:	5 x 20mm	5 x 20mm	5 x 20mm
Panel Size:			/1 (1.0-1.5mm panel, black sleeve) /2 (2.0-3.0mm panel, grey sleeve)
Fuse Carrier:	Screw cap/Screwdriver release	Screw cap/Screwdriver release	Screw cap/Screwdriver release
Terminations:	Solder tags	Solder tags	Solder tags
Max. Rating:	10A, 250V (16A, 250V a.c. UL)	10A, 250V (16A, 250V a.c. UL)	10A, 250V (16A, 250V a.c. UL)
Max. Power Dissipation:	2.5W (@ 23°C)	2.5W (@ 23°C)	2.5W (@ 23°C)
Insulation Resistance:	>10 ⁹ MΩ @ 500V d.c.	>10 ⁹ MΩ @ 500V d.c.	>10 ⁹ MΩ @ 500V d.c.
A.C. Breakdown:	7kV @ 50Hz	7kV @ 50Hz	7kV @ 50Hz
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Operating Temp:	-20°C to +85°C (ambient air temp + fuse temp rise)	-20°C to +85°C (ambient air temp + fuse temp rise)	-20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings:			
Body:	Polyester UL94V-0 rated	Polyester UL94V-0 rated	Polyester UL94V-0 rated
Cap:	Nylon UL94V-0 rated	Nylon UL94V-0 rated	Nylon UL94V-0 rated
Nut:	Glass Filled Nylon UL94V-0 rated	Glass Filled Nylon UL94V-0 rated	
Contacts:	Brass, Silver Plated	Brass, Silver Plated	Brass, Silver Plated
Approvals:			
Accessories:	P.Nos. 11327, 12297 & 12298 (See page 206)	P.Nos. 11327, 12297 & 12298 (See page 206)	P.Nos. 11327 (See page 205)
RoHS	Compliant	Compliant	Compliant

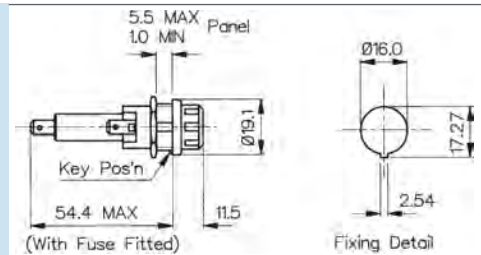
Panel Mount



FX0415,

FX0416

- Protection Category PC2
- Fuse Sizes:
6.3 x 32mm (FX0415)
6.3 x 25mm (FX0416)
- Screw Cap/Hand Release
- 13A, 250V (16A, 250V UL)



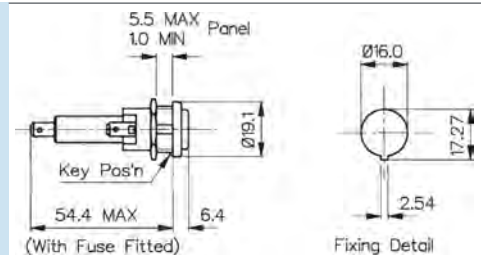
Panel Mount



FX0415/S,

FX0416/S

- Protection Category PC2
- Fuse Sizes:
6.3 x 32mm (FX0415/S)
6.3 x 25mm (FX0416/S)
- Screw Cap/Screwdriver Release
- 13A, 250V (16A, 250V UL)



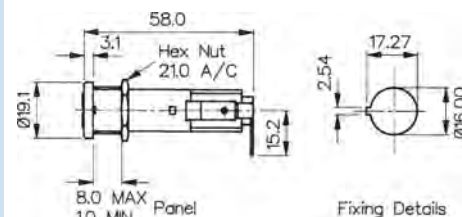
Specifications	FX0415, FX0416	FX0415/S, FX0416/S
Fuse Size:	FX0415 - 6.3 x 32mm FX0416 - 6.3 x 25mm	FX0415/S - 6.3 x 32mm FX0416/S - 6.3 x 25mm
Fuse Carrier:	Screw cap/Hand release	Screw cap/Hand release
Terminations:	4.8 series tabs	4.8 series tabs
Max. Rating:	13A, 250V (16A, 250V UL)	13A, 250V (16A, 250V UL)
Max. Power Dissipation:	4W (@ 23°C)	4W (@ 23°C)
Insulation Resistance:	>10 ⁵ MΩ @ 500V d.c.	>10 ⁵ MΩ @ 500V d.c.
A.C. Breakdown:	4kV @ 50Hz	4kV @ 50Hz
Contact Resistance:	<5mΩ	<5mΩ
Operating Temp:	-20°C to +85°C (ambient air temp + fuse temp rise)	-20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings:		
Body:	Glass Filled Nylon UL94V-0 rated	Glass Filled Nylon UL94V-0 rated
Cap:	Nylon UL94V-0 rated	Nylon UL94V-0 rated
Nut:	Polyester UL94V-0 rated	Polyester UL94V-0 rated
Contacts:	Brass, Silver Plated	Brass, Silver Plated
Approvals:		
Accessories:	P.No. 12932 (See page 205)	P.No. 12932 (See page 205)
RoHS	Compliant	Compliant

Panel Mount



FX0417

- Protection Category PC2
- Fuse Size 6.3 x 32mm
- Screw Cap/Screwdriver Release
- 16A, 250V (20A, 250V UL)

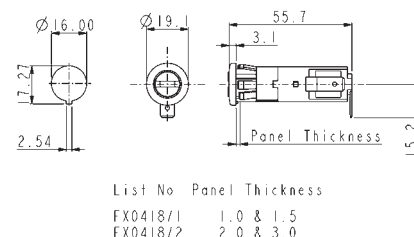


Snap Fit to Panel



FX0418

- Protection Category PC2
- Fuse Size 6.3 x 32mm
- Panel Sizes 1.0 & 1.5 and 2.0 & 3.0mm
- Screw Cap/Screwdriver Release
- 16A, 250V (20A, 250V UL)



Specifications	FX0417	FX0418/Panel
Fuse Size:	6.3 x 32mm	6.3 x 32mm
Panel Size:		/1 (1.0-1.5mm panel, black sleeve) /2 (2.0-3.0mm panel, grey sleeve)
Fuse Carrier:	Screw cap/Screwdriver release	Screw cap/Screwdriver release
Terminations:	6.3 series tabs	6.3 series tabs
Max. Rating:	16A, 250V 20A, 250V a.c. UL	16A, 250V 20A, 250V a.c. UL
Max. Power Dissipation:	4W (@ 23°C)	4W (@ 23°C)
Insulation Resistance:	>10 ⁶ MΩ @ 500V d.c.	>10 ⁶ MΩ @ 500V d.c.
A.C. Breakdown:	>2kV	>2kV
Contact Resistance:	<10mΩ	<10mΩ
Operating Temp:	-20°C to +85°C (ambient air temp + fuse temp rise)	-20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings:		
Body:	Glass Filled Polyester UL94V-0 rated	Glass Filled Polyester UL94V-0 rated
Cap:	Nylon UL94V-0 rated	Nylon UL94V-0 rated
Sleeve:	Polyester UL94V-0 rated	Polyester UL94V-0 rated
Contacts:	Brass, Silver Plate	Brass, Silver Plate
Approvals:		
RoHS	Compliant	Compliant

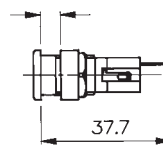
Panel Mount



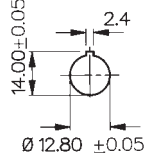
FX0354

- Protection Category PC2
- Low Profile Bezel
- Fuse Size 5 x 20mm
- Screw Cap/Screwdriver Release
- Keyway Panel Cutout
- 6.3A, 250V

6.4 MAX Panel
0.8 MIN PANEL



Fixing Details



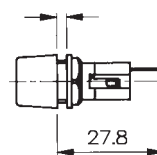
Panel Mount



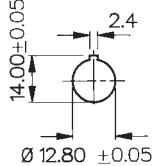
FX0354/S

- Protection Category PC2
- High Profile Bezel
- Fuse Size 5 x 20mm
- Screw Cap/Screwdriver Release
- Keyway Panel Cutout
- 6.3A, 250V

2.4 MAX Panel
0.8 MIN PANEL



Fixing Details



Specifications	FX0354	FX0354/S
Fuse Size:	5 x 20mm	5 x 20mm
Fuse Carrier:	Screw cap/Screwdriver release	Screw cap/Screwdriver release
Terminations:	Solder tags	Solder tags
Max. Rating:	6.3A, 250V	6.3A, 250V
Max. Power Dissipation:	2.5W (@ 23°C)	2.5W (@ 23°C)
Insulation Resistance:	>10 ¹² MΩ @ 500V d.c.	>10 ¹² MΩ @ 500V d.c.
A.C. Breakdown:	5kV @ 50Hz	5kV @ 50Hz
Contact Resistance:	<10mΩ	<10mΩ
Operating Temp:	-20°C to +85°C (ambient air temp + fuse temp rise)	-20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings:		
Body:	Polyester UL94V-0 rated	Polyester UL94V-0 rated
Cap:	Nylon UL94V-0 rated	Nylon UL94V-0 rated
Nut:	Glass Filled Nylon UL94V-0 rated	Glass Filled Nylon UL94V-0 rated
Contacts:	Brass, Silver Plated	Brass, Silver Plated
Approvals:		
Accessories:	P.No. 11327 and 12298 (See page 205)	P.No. 11327 and 12298 (See page 205)
RoHS	Compliant	Compliant

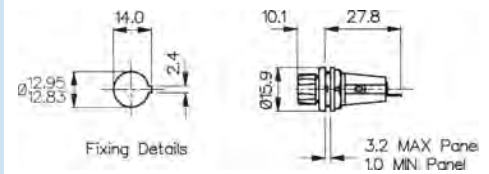
Panel Mount



FX0296/S

FX0296

- Protection Category PC1
- Fuse Size 5 x 20mm
- Screw Cap/Hand Release
- 6.3A, 250V

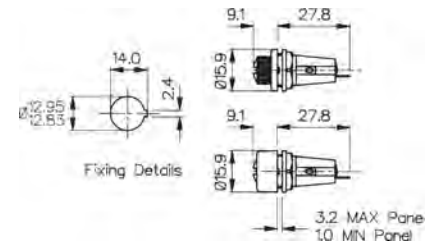


Panel Mount



FX0296/1

- Protection Category PC1
- Fuse Size 5 x 20mm
- Screw Cap/Hand Release
- 6.3A, 250V



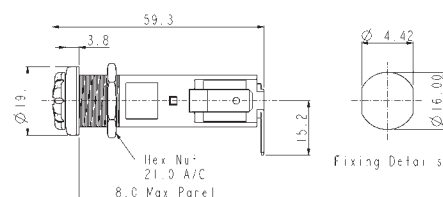
Specifications	FX0296, FX0296/S	FX0296/1
Fuse Size:	5 x 20mm	5 x 20mm
Fuse Carrier:	FX0296 Screw cap/Hand release FX0296/S Screw cap/Screwdriver release	Screw cap/Hand release
Terminations:	Solder tags	Solder tags
Max. Rating:	6.3A, 250V	6.3A, 250V
Max. Power Dissipation:	2.5W (@ 23°C)	2.5W (@ 23°C)
Insulation Resistance:	>10 ⁵ MΩ @ 500V d.c.	>10 ⁵ MΩ @ 500V d.c.
A.C. Breakdown:	2.5kV @ 50Hz	2.5kV @ 50Hz
Contact Resistance:	<5mΩ	<5mΩ
Operating Temp:	-20°C to +85°C (ambient air temp + fuse temp rise)	-20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings:		
Body:	Glass Filled Nylon UL94V-0 rated Nylon	Glass Filled Nylon UL94V-0 rated Nylon
Cap:	UL94V-0 rated	UL94V-0 rated
Nut:	Glass Filled Nylon UL94V-0 rated	Glass Filled Nylon UL94V-0 rated
Contacts:	Brass, Silver or Tin Plated	Brass, Silver or Tin Plated
Accessories	P.No. 9820 (See page 205)	P.No. 9820 (See page 205)
RoHS	Compliant	Compliant

Panel Mount



FX0419

- Panel sealed to IP68
- Touchproof Category PC2
- Fuse Size 6.3 x 32mm
- Screw cap/Screwdriver/Hand Release
- 16A. 250V ac

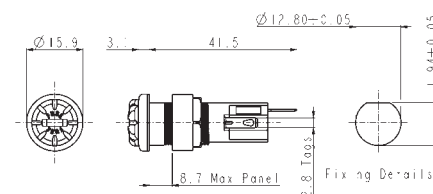


Panel Mount



FX0462

- Panel sealed to IP68
- Touchproof Category PC2
- Fuse Size 5 x 20mm
- Screw cap/Screwdriver/Hand Release
- 10A. 250V ac

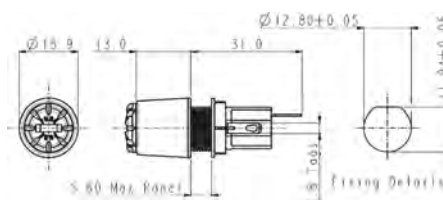


Panel Mount



FX0463

- Panel sealed to IP68
- Touchproof Category PC2
- Fuse Size 5 x 20mm
- High Profile Bezel
- Screw cap/Screwdriver/Hand Release
- 10A. 250V ac



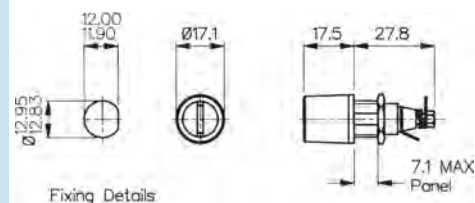
Specifications	FX0419	FX0462	FX0463
Fuse Size:	6.3 x 32mm	5.0 x 20mm	5.0 x 20mm
Fuse Carrier:	Screw cap/Screwdriver/Hand release	Screw cap/Screwdriver/Hand release	Screw cap/Screwdriver/Hand release
Terminations:	6.3 series tabs	Solder tags	Solder tags
Max. Rating:	16A, 250V ac	10A, 250V ac	10A, 250V ac
Max. Power Dissipation:	2.5W (@ 23°C)	2.5W (@ 23°C)	2.5W (@ 23°C)
Insulation Resistance:	>10 ⁶ MΩ @ 500V d.c.	>10 ⁶ MΩ @ 500V d.c.	>10 ⁶ MΩ @ 500V d.c.
A.C. Breakdown:	>2kV @ 50Hz	>7kV @ 50Hz	>7kV @ 50Hz
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Operating Temp:	-20°C to +85°C (ambient air temp + fuse temp rise)	-20°C to +85°C (ambient air temp + fuse temp rise)	-20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings:			
Body:	Polyester UL94V-0 rated	Polyester UL94V-0 rated	Polyester UL94V-0 rated
Cap:	Nylon UL94V-0 rated	Nylon UL94V-0 rated	Nylon UL94V-0 rated
Nut:	Glass Filled Nylon UL94V-0 rated	Glass Filled Nylon UL94V-0 rated	Glass Filled Nylon UL94V-0 rated
Contacts:	Brass, Silver Plated	Brass, Silver Plated	Brass, Silver Plated
Tightening Torque:			
Cap:	0.5 - 0.6Nm (4.43-5.3lbf.in.)	0.4 - 0.6Nm (3.54-5.3lbf.in.)	0.4 - 0.6Nm (3.54-5.3lbf.in.)
Panel Nut:	0.5Nm (4.4lbf.in.)	0.5Nm (4.4lbf.in.)	0.5Nm (4.4lbf.in.)
Sealing:	IP68 to EN60529:1992+A2:2013 (10m for 2weeks)	IP68 to EN60529:1992+A2:2013 (10m for 2weeks)	IP68 to EN60529:1992+A2:2013 (10m for 2weeks)
Accessories:		P.nos. 11327 (see page 205)	P.nos. 11327 (see page 205)
Approvals:			
RoHS	Compliant	Compliant	Compliant

High Profile Panel Mount



FX0345

- Sealed to IP66
- Protection Category PC1
- Fuse Size 5 x 20mm
- Screw Cap/Screwdriver Release
- 6.3A, 250V

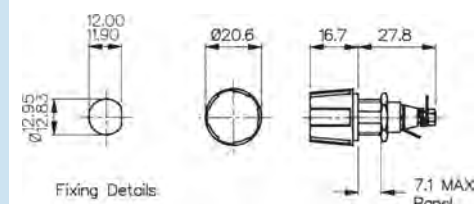


High Profile Panel Mount



FX0365

- Sealed to IP66
- Protection Category PC1
- Fuse Size 5 x 20mm
- Screw Cap/Hand Release
- Large Cap for Easy Grip
- 6.3A, 250V



Specifications	FX0345, FX0345/A	FX0365, FX0365/A
Fuse Size:	5 x 20mm	5 x 20mm
Fuse Carrier:	Screw cap/Screwdriver release	Screw cap/Screwdriver release
Terminations:	Solder tags	Solder tags
Max. Rating:	6.3A, 250V	6.3A, 250V
Max. Power Dissipation:	4W (@ 23°C)	4W (@ 23°C)
Insulation Resistance:	>10 ³ MΩ @ 500V d.c.	>10 ³ MΩ @ 500V d.c.
A.C. Breakdown:	>3.5kV @ 50Hz	>3.5kV @ 50Hz
Contact Resistance:	<10mΩ	<10mΩ
Operating Temp:	-20°C to +85°C (ambient air temp + fuse temp rise)	-20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings:		
Body & Cap:	Glass Filled Nylon UL94V-0 rated	Glass Filled Nylon UL94V-0 rated
Spacer:	Glass Filled Nylon UL94HB rated	Glass Filled Nylon UL94HB rated
Insulating Sleeve:	Nylon UL94V-0 rated	Nylon UL94V-0 rated
Contacts:	Brass, Silver Plated	Brass, Silver Plated
Sealing:	Protection Classification IP66 to EN60529:1992+A2:2013 Retains sealing integrity with cap removed since they are both panel and barrier sealed	
Variants:	/A Silicone 'O' ring, Op. Temp. -55°C to +85°C Compliant	/A Silicone 'O' ring, Op. Temp. -55°C to +85°C Compliant

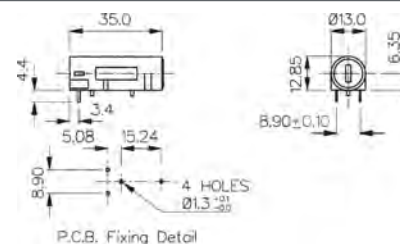
RoHS

PC Horizontal Mount



FX0461

- Protection Category PC3
- Fuse Size 5 x 20mm
- Screw Cap/Screwdriver Release
- Captive Fuse Carrier
- PC Spills
- 10A, 250V
- (16A, 250V UL)



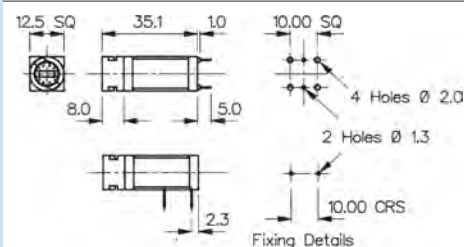
PC Horizontal and Vertical Mount



FX0456

FX0457

- Protection Category PC2
- Fuse Sizes 5 x 20mm
- Bayonet Cap/Screwdriver Release
- 10A, 250V



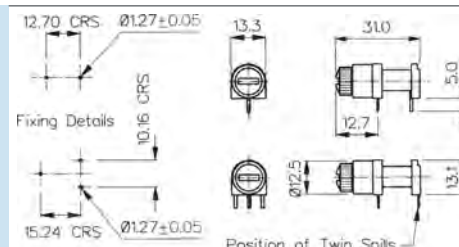
PC Horizontal Mount



FX0330

FX0342

- Protection Category PC1
- Fuse Size 5 x 20mm
- Two or Three PC Spills
- Screw Cap/Hand Release
- 6.3A, 250V



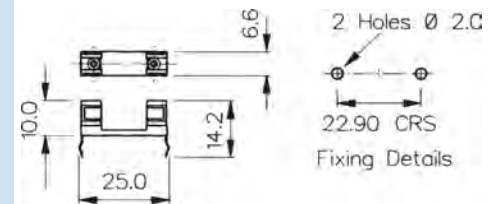
Specifications	FX0461	FX0456 FX0457	FX0330 FX0342
Fuse Size:	5 x 20mm	5 x 20mm	5 x 20mm
Fuse Carrier:	Screw cap/Screwdriver release	Bayonet cap/Screwdriver release	Screw cap/Hand release
Terminations:	PC Spills	PC Spills	FX0330 - 3 PC Spills FX0342 - 2 PC Spills
Max. Rating:	10A, 250V (16A, 250V a.c. UL)	10A, 250V	6.3A, 250V
Max. Power Dissipation:	1.6W (@ 23°C)	2.5W (@ 23°C)	2.5W (@ 23°C)
Insulation Resistance:	>10MΩ @ 500V d.c.	>10 ⁹ MΩ @ 500V d.c.	>10 ⁴ MΩ @ 500V d.c.
A.C. Breakdown:	>2kV	4kV @ 50Hz	6kV @ 50Hz
Contact Resistance:	<10mΩ	<10mΩ	<5mΩ
Operating Temp:	-20°C to +85°C (ambient air temp + fuse temp rise)	-20°C to +85°C (ambient air temp + fuse temp rise)	-20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings:			
Body:	Polyester UL94V-0 rated	Polyester UL94V-0 rated	Glass Filled Nylon UL94V-0 rated
Cap:	Nylon UL94V-0 rated	Nylon UL94V-0 rated	Nylon UL94V-0 rated
End Bung:		Polyester UL94V-0 rated	
Contacts:	Brass, Silver Plated	Brass, Silver Plated	Brass, Tin Plated
Approvals:			
RoHS	Compliant	Compliant	Compliant

PC Mount



FX0321

- Protection Category PC1
- Fuse Size 5 x 20mm
- PC Spills
- 6.3A, 250V



Base Mount



FX0267

- Protection Category PC1
- Fuse Size 5 x 20mm
- Solder Tags
- 6.3A, 250V

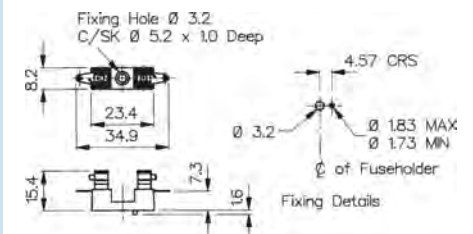


Base Mount



FX0360

- Protection Category PC1
- Fuse Size 5 x 20mm
- Solder Tags
- 6.3A, 250V



Specifications	FX0321	FX0267	FX0360
Fuse Size:	5 x 20mm	5 x 20mm	5 x 20mm
Terminations:	PC Spills	Solder tags	Solder tags
Max. Rating:	6.3A, 250V	6.3A, 250V	6.3A, 250V
Insulation Resistance:	>10 ⁵ MΩ @ 500V d.c.	>10 ⁵ MΩ @ 500V d.c.	>10 ⁴ MΩ @ 500V d.c.
A.C. Breakdown:	7kV @ 50Hz (Clip to clip)	1.5kV @ 50Hz	2kV @ 50Hz
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Operating Temp: (ambient air temp + fuse temp rise)	-20°C to +85°C	-20°C to +85°C	-20°C to +85°C
Base Material:	Glass Filled Nylon UL94V-0 rated	Glass Filled Nylon UL94V-0 rated	Glass Filled Nylon UL94HB rated
Contacts:	Phosphor Bronze, Tin Plated	Phosphor Bronze, Tin Plated	Phosphor Bronze, Tin Plated
Accessories:	P.No. 12760 (See page 205)	P.No. 12760 (See page 205)	
RoHS	Compliant	Compliant	Compliant

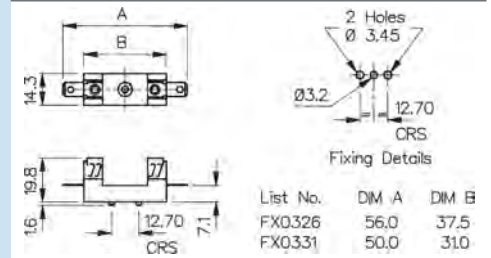
Base Mount



FX0326

FX0331

- Protection Category PC1
- Fuse Sizes:
6.3 x 32mm (FX0326)
6.3 x 25mm (FX0331)
- Solder Tags
- 13A, 250V

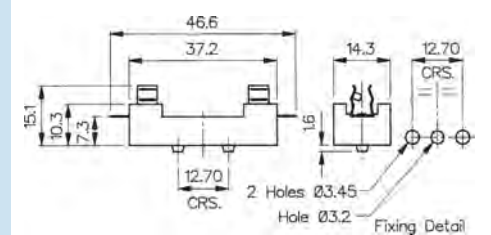


Base Mount

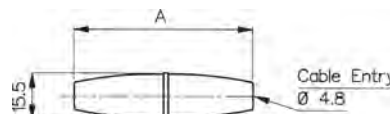
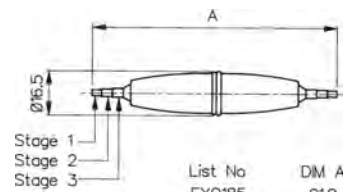


FX0327

- Protection Category PC1
- Fuse Size 6.3 x 32mm
- Solder Tags
- 5A, 250V



Specifications	FX0326, FX0331	FX0327
Fuse Size:	FX0326 - 6.3 x 32mm FX0331 - 6.3 x 25mm	6.3 x 32mm
Terminations:	6.3 series tabs	Solder tags
Max. Rating:	13A, 250V	5A, 250V
Insulation Resistance:	>10 ⁴ MΩ @ 500V d.c.	>10 ⁵ MΩ @ 500V d.c.
A.C. Breakdown:	5kV @ 50Hz	5kV @ 50Hz
Contact Resistance:	<5mΩ	<10mΩ
Operating Temp: (ambient air temp + fuse temp rise)	-20°C to +85°C	-20°C to +85°C
Base Material:	Glass Filled Polyester UL94V-0 rated	Glass Filled Polyester UL94V-0 rated
Contacts:	Clips: Phosphor Bronze, Tin Plated Tabs: Brass, Tin Plated	Phosphor Bronze, Tin Plated
RoHS	Compliant	Compliant

In-line  FX0180, FX0280, FX0380	○ Protection Category PC1 ○ Fuse Sizes 5 x 20mm, 6.3 x 25mm and 6.3 x 32mm ○ Screw Terminal (Solder to order) ○ 10A, 50V (250V Inaccessible) ○ UL Approved (Black Only) ○ Clear or black	 <table><tr><td>List No.</td><td>DIM A</td></tr><tr><td>FX0180</td><td>60.3</td></tr><tr><td>FX0280</td><td>54.5</td></tr><tr><td>FX0380</td><td>48.6</td></tr></table>	List No.	DIM A	FX0180	60.3	FX0280	54.5	FX0380	48.6
List No.	DIM A									
FX0180	60.3									
FX0280	54.5									
FX0380	48.6									
In-line  FX0185, FX0285, FX0385	○ Sealed to IP66 ○ Protection Category PC1 ○ Fuse Sizes 5 x 20mm, 6.3 x 25mm and 6.3 x 32mm ○ Screw Terminal (Solder to order) ○ 10A, 50V (250V Inaccessible) ○ UL Approved (Black Only) ○ Clear or black	 <table><tr><td>List No</td><td>DIM A</td></tr><tr><td>FX0185</td><td>91.0</td></tr><tr><td>FX0285</td><td>85.2</td></tr><tr><td>FX0385</td><td>79.2</td></tr></table>	List No	DIM A	FX0185	91.0	FX0285	85.2	FX0385	79.2
List No	DIM A									
FX0185	91.0									
FX0285	85.2									
FX0385	79.2									

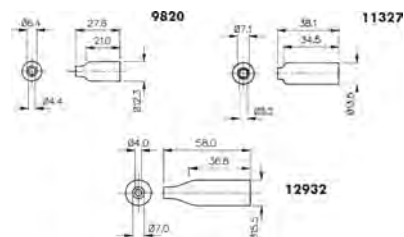
Specifications	FX0180/colour, FX0280.colour, FX0380/Colour	FX0185/Colour, FX0285/colour, FX0385/Colour
Fuse Size:	5 x 20mm FX0380 6.3 x 25mm FX0280 6.3 x 32mm FX0180	5 x 20mm FX0385 6.3 x 25mm FX0285 6.3 x 32mm FX0185
Cable Acceptance:	1mm ² conductor (max.)	1mm ² conductor (max.) 1mm to 2.64mm overall diameter Stepped grommet: Stage 1: 1.00mm to 1.40mm Stage 2: 1.50mm to 1.90mm Stage 3: 2.0mm to 2.64mm
Terminations:	Screw terminal (solder to order)	Screw Terminal (solder to order)
Max. Rating:	10A, 50V (250V where inaccessible inside equipment)	10A, 50V (250V where inaccessible inside equipment)
Insulation Resistance:	>10 ⁵ MΩ @ 500V d.c.	>10 ⁵ MΩ @ 500V d.c.
High Voltage Proof Test:	2kV (50Hz for 1 minute)	2kV (50Hz for 1 minute)
Contact Resistance:	<10mΩ	<10mΩ
Operating Temp: (ambient air temp + fuse temp rise)	-20°C to +90°C	-20°C to +70°C
Sealing:		Protection Classification IP66 EN60529: 1992+A2:2013
Screw Tightening Torque	0.226Nm (2lb/in)	0.226Nm (2lb/in)
Mouldings:		Polybutene UL94HB rated Nylon 6 UL94V-0 rated PVC Nitrile
Body - Clear:	Polybutene UL94HB rated	
Body - Black:	Nylon 6 UL94V-0 rated	
Grommet:		
O Ring:		
Contacts:		
Terminals:	Brass, Nickel Plated	Brass, Nickel Plated
Grub Screw:	Stainless Steel	Stainless Steel
Approvals:	 (Black version only)	 (Black version only)
Colour:	Clear - no suffix, /BK - Black	Clear - no suffix, /BK - Black
RoHS	Compliant	Compliant

Insulation Boots



PNo. 11327 PNo. 12932 PNo. 9820

- Provide Insulation against Shock on Rear of Fuseholder
- PVC
- UL94V-0 rated flame retardant material

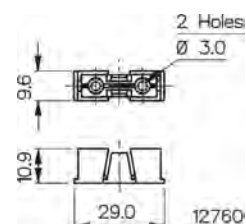


Insulation Cover



PNo. 12760

- Provide Insulation from Live Parts on Fuseholder
- Clear
- Polycarbonate

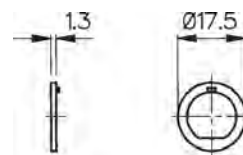


Adaptor



PNo. 12297

- Adaptor to Convert Fixing Holes
- Maintains Anti-Rotation
- Glass Filled Nylon



12297

Accessories	For Use With:
P.No. 9820 (Boot)	FX0296, FX0296/1, FX0296/S
P.No. 11327 (Boot)	FX0354, FX0354/S, FX0357, FX0359, FX0454, FX0454/S, FX0455, FX0455/S, FX0460, FX0458, FX0367, FX0369, FX0462, FX0463
P.No. 12932 (Boot)	FX0415, FX0415/S, FX0416, FX0416/S
P.No. 12760 (Cover)	FX0267, FX0321
Max. Working Voltage:	250V a.c.
Flash Tested to:	2kV a.c.
Material:	P.Nos. 9820, 11327, 12932: PVC - UL94V-0 P.No. 12760: Polycarbonate
P.No. 12297 (Adaptor Washer)	Adapts 'D' fixing to anti-rotation Key Fixing FX0455, FX0455/S
Material:	Glass Filled Nylon
RoHS	Compliant

This range of panel mounting **LED indicators** consists of many different **bezel styles**, types of LED's and colours. The range has developed to meet the many different needs of panel design including **IP67 environmentally sealed versions** for use where a front panel seal is needed.

The vandal resistant LED indicators are designed to complement the vandal resistant switches (see the Switch Section), they have similar profiles with stainless steel bodies, sealing to IP66 & 68 and are built to withstand harsh environments.

Vandal Resistant LED
LED Bezel

207-208
209-213

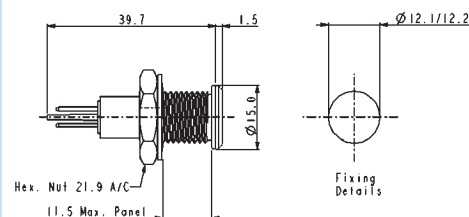


Proud of Panel Profile



DX0505

- Solder Tag/2.8mm Tag Termination
- Sealed to IP67
- Red, Green, Yellow or Blue LED Options
- Wide Viewing Angle
- Shock and Vibration Resistant
- Stainless Steel body

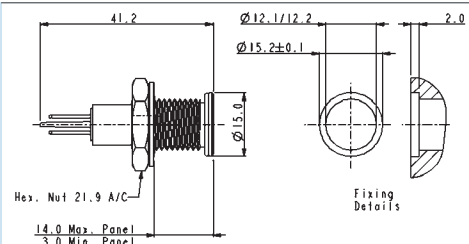


Flush Panel Profile



DX0506

- Solder Tag/2.8mm Tag Termination
- Sealed to IP67
- Red, Green, Yellow or Blue LED Options
- Wide Viewing Angle
- Shock and Vibration Resistant
- Stainless Steel body



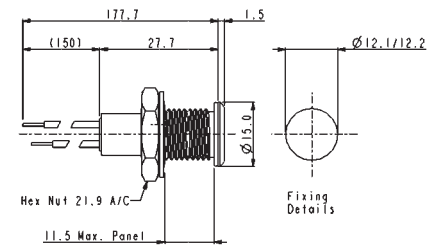
Specifications	DX0505/Col/Voltage	DX0506/Col/Voltage
Terminations:	Solder Tab/2.8mm Tab	Solder Tab/2.8mm Tab
Forward Voltage:	Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V	Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V
Cont. Forward Current: (max)	Red 30mA, Green 25mA, Yellow 30mA, Blue 25mA	Red 30mA, Green 25mA, Yellow 30mA, Blue 25mA
Power Dissipation:	Red 100mW, Green 105mW, Yellow 125mW, Blue 120mW	Red 100mW, Green 105mW, Yellow 125mW, Blue 120mW
Reverse Current: (@Vr = 5V)	Red 10µA max., Green 10µA max., Yellow 10µA max., Blue 50µA max.	Red 10µA max., Green 10µA max., Yellow 10µA max., Blue 50µA max.
LED Luminous Intensity:	Red 2000mcd, Green 100mcd, Yellow 400mcd, Blue 1600mcd (typ)	Red 2000mcd, Green 100mcd, Yellow 400mcd, Blue 1600mcd (typ)
Operating Temp. Range:	-40°C to +80°C	-40°C to +80°C
Storage Temperature:	-40°C to +85°C	-40°C to +85°C
Sealing (Front of panel):	Protection Classification IP67 to EN60529:1992+A2:2013	Protection Classification IP67 to EN60529:1992+A2:2013
Materials		
Body:	Stainless Steel	Stainless Steel
Lens:	Polycarbonate UL94V-0	Polycarbonate UL94V-0
O Ring (external):	Nitrile	Nitrile
(internal):	Silicone	Silicone
Tightening Torque	0.5Nm - 0.9Nm (4.4lbf.in. - 8.0lbf.in.)	0.5Nm - 0.9Nm (4.4lbf.in. - 8.0lbf.in.)
Thread Size:	M12 x 1.25-6g	M12 x 1.25-6g
LED Colours:	/RD (Red), /GN (Green), /YL (Yellow) /BL (Blue), with colour coded insulator	/RD (Red), /GN (Green), /YL (Yellow) /BL (Blue), with colour coded insulator
LED Voltage:	/12 (12V d.c.), /24 (24V d.c.) or /00 (no ballast resistor)	/12 (12V d.c.), /24 (24V d.c.) or /00 (no ballast resistor)
RoHS	Compliant	Compliant

Proud of Panel Profile



DX0507

- Flying Lead Termination
- Sealed to IP67
- Red, Green, Yellow or Blue LED Options
- Wide Viewing Angle
- Shock and Vibration Resistant
- Stainless Steel body

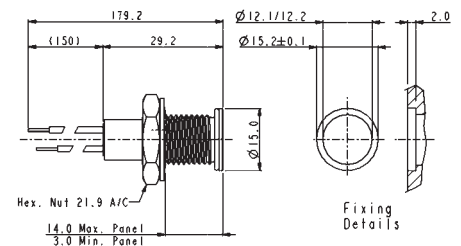


Flush Panel Profile



DX0508

- Flying Lead Termination
- Sealed to IP67
- Red, Green, Yellow or Blue LED Options
- Wide Viewing Angle
- Shock and Vibration Resistant
- Stainless Steel body

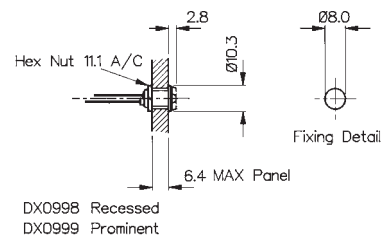


Specifications	DX0507/Col/Voltage	DX0508/Col/Voltage
Terminations:	Flying Leads	Flying Leads
Forward Voltage:	Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V	Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V
Cont. Forward Current: (max)	Red 30mA, Green 25mA, Yellow 30mA, Blue 25mA	Red 30mA, Green 25mA, Yellow 30mA, Blue 25mA
Power Dissipation:	Red 100mW, Green 105mW, Yellow 125mW, Blue 120mW	Red 100mW, Green 105mW, Yellow 125mW, Blue 120mW
Reverse Current: (@Vr = 5V)	Red 10µA max., Green 10µA max., Yellow 10µA max., Blue 50µA max.	Red 10µA max., Green 10µA max., Yellow 10µA max., Blue 50µA max.
LED Luminous Intensity:	Red 2000mcd, Green 100mcd, Yellow 400mcd, Blue 1600mcd (typ)	Red 2000mcd, Green 100mcd, Yellow 400mcd, Blue 1600mcd (typ)
Operating Temp. Range:	-40°C to +80°C	-40°C to +80°C
Storage Temperature:	-40°C to +85°C	-40°C to +85°C
Sealing (Front of panel):	Protection Classification IP67 to EN60529:1992+A2:2013	Protection Classification IP67 to EN60529:1992+A2:2013
Materials		
Body:	Stainless Steel	Stainless Steel
Lens:	Polycarbonate UL94V-0	Polycarbonate UL94V-0
O Ring (external):	Nitrile	Nitrile
(internal):	Silicone	Silicone
Tightening Torque	0.5Nm - 0.9Nm (4.4lbf.in. - 8.0lbf.in.)	0.5Nm - 0.9Nm (4.4lbf.in. - 8.0lbf.in.)
Thread Size:	M12 x 1.25-6g	M12 x 1.25-6g
LED Colours:	/RD (Red), /GN (Green), /YL (Yellow) /BL (Blue), with colour coded insulator	/RD (Red), /GN (Green), /YL (Yellow) /BL (Blue), with colour coded insulator
LED Voltage:	/12 (12V d.c.), /24 (24V d.c.) or /00 (no ballast resistor)	/12 (12V d.c.), /24 (24V d.c.) or /00 (no ballast resistor)
RoHS	Compliant	Compliant

Chrome Plated Brass Bezel



- Chrome Plated Brass Bezel
- Prominent or Recessed Style
- Choice of LED Types and Colours

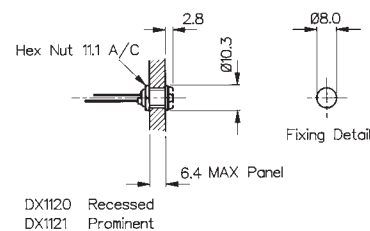


DX0998 Recessed
DX0999 Prominent

Nylon Bezel



- Glass Filled Nylon Bezel
- Prominent or Recessed Style
- Choice of LED Types and Colours



DX1120 Recessed
DX1121 Prominent

Specifications	DX0998, DX0999/Colour/Options	DX1120, DX1121/Colour/Options
Bezel Material:	Brass, Chrome Plated	Glass Filled Nylon
Style:	Recessed (DX0998) Prominent (DX0999)	Recessed (DX1120) Prominent (DX1121)
Operating Temp. Range:	Dependent on LED used	Dependent on LED used
Storage Temperature:	Dependent on LED used	Dependent on LED used
LED Colours:	/RD (Red), /GN (Green), /YL (Yellow), /BL (Blue), /TR (Tri Colour), /D1 (Dual Colour - Red/Green), /D2 (Dual Colour - Red/Amber), /D3 (Dual Colour - Green/Amber)	/RD (Red), /GN (Green), /YL (Yellow), /BL (Blue), /TR (Tri Colour), /D1 (Dual Colour - Red/Green), /D2 (Dual Colour - Red/Amber), /D3 (Dual Colour - Green/Amber)
LED Options:	/02 (Flashing, Green or Red only)	/02 (Flashing, Green or Red only)
Thread Size:	0.312" x 32TPI	0.312" x 32TPI
RoHS	Compliant	Compliant

See Page 212 for LED options and specifications*

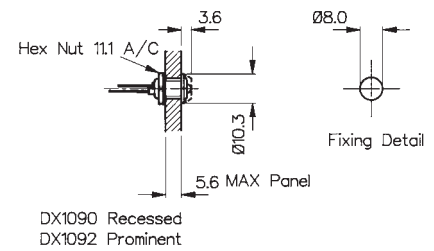
Aluminium Bezel - IP66 Sealed



DX1090

DX1092

- Aluminium Bezel, Black
- Anodised Finish
- IP66 Front Panel Sealed
- Prominent or Recessed Style
- Choice of LED Types and Colours



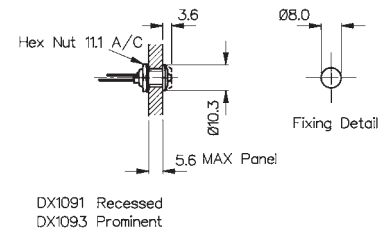
Aluminium Bezel - IP66 Sealed



DX1091

DX1093

- Aluminium Bezel, Clear
- Anodised Finish
- IP66 Front Panel Sealed
- Prominent or Recessed Style
- Choice of LED Types and Colours



Specifications	DX1090, DX1092/Colour/Options	DX1091, DX1093/Colour/Options
Materials:	Aluminium - Black	Aluminium - Clear
Style:	Recessed (DX1090) Prominent (DX1092)	Recessed (DX1091) Prominent (DX1093)
Operating Temp. Range:	Dependent on LED used	Dependent on LED used
Storage Temperature:	Dependent on LED used	Dependent on LED used
Sealing (Front of panel):	Protection Classification IP66 to EN60529:1992+A2:2013	Protection Classification IP66 to EN60529:1992+A2:2013
Tightening Torque:	0.056Nm (8ozf.in.) min	0.056Nm (8ozf.in.) min
Lead Solder Time:	260°C for 5 seconds max.	260°C for 5 seconds max.
LED Colours:	/RD (Red), /GN (Green), /YL (Yellow), /BL (Blue), /TR (Tri Colour), /D1 (Dual Colour - Red/Green), /D2 (Dual Colour - Red/Amber), /D3 (Dual Colour - Green/Amber)	/RD (Red), /GN (Green), /YL (Yellow), /BL (Blue), /TR (Tri Colour), /D1 (Dual Colour - Red/Green), /D2 (Dual Colour - Red/Amber), /D3 (Dual Colour - Green/Amber)
LED Options:	/02 (Flashing, Green or Red only)	/02 (Flashing, Green or Red only)
Thread Size:	0.312" x 32TPI	0.312" x 32TPI
RoHS	Compliant	Compliant

See Page 212 for LED options and specifications

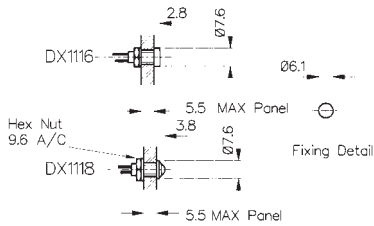
Chrome Plated Brass Bezel



DX1116

DX1118

- Chrome Plated Brass Bezel
- Prominent or Recessed Style
- Choice of LED Types and Colours



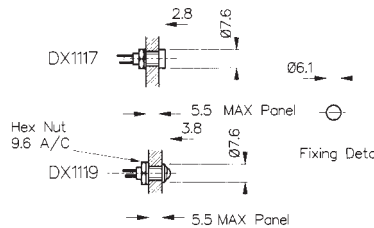
Black Nickel Pated Brass Bezel



DX1117

DX1119

- Aluminium, Black Anodised Bezel
- Prominent or Recessed Style
- Choice of LED Types and Colours

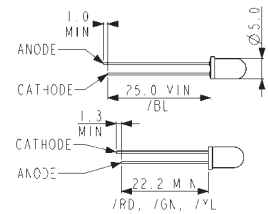


Specifications	DX1116, DX1118/Colour	DX1117, DX1119/Colour
Bezel Materials:	Brass, Chrome Plated	Aluminium, Black Anodised
Style:	Recessed (DX1116) Prominent (DX1118)	Recessed (DX1117) Prominent (DX1119)
Operating Temp. Range:	Dependent on LED used	Dependent on LED used
Storage Temperature:	Dependent on LED used	Dependent on LED used
Lead Solder Time:	260°C for 5 seconds max.	260°C for 5 seconds max.
LED Colours:	/RD (Red), /GN (Green), /YL (Yellow), /BL (Blue)	/RD (Red), /GN (Green), /YL (Yellow), /BL (Blue)
RoHS	Compliant	Compliant

See Page 213 for LED specifications*

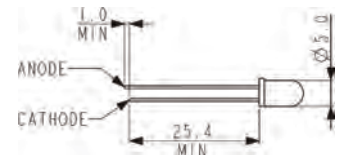
5mm LEDs STANDARD

Specification	Red	Green	Yellow	Blue
Luminous Intensity @20mA:	25mcd	20mcd	20mcd	21mcd
Forward voltage:	2.0V	2.0V	2.1V	3.5V
Cont. Forward Current (max):	30mA	25mA	30mA	30mA
Power Dissipation:	105mW (max) @20°C Ambient			120mW
Reverse Current:	10µA	10µA	10µA	50µA
Reverse Voltage:	5V (max)	5V (max)	5V (max)	5V (max)
Operating Temp:	-40°C to +85°C			-20°C to +80°C
Part No:	/RD	/GN	/YL	/BL



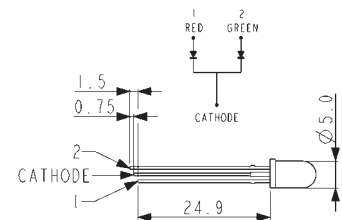
5mm LEDs FLASHING

Specification	Red	Green
Luminous Intensity @20mA:	1.2mcd	20mcd
Forward voltage:	2.0-15.0V	2.0V
Cont. Forward Current (max):	10-30mA	25mA
Power Dissipation:	200mW (max) @ 20°C ambient	
Flash Frequency @ 3V supply:	2.2Hz (typ)	
Operating Temp:	0°C to +70°C	
Part No:	/RD/02	/GN/02



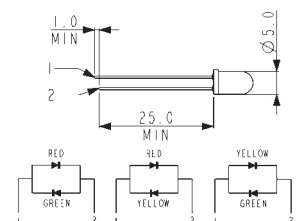
5mm LEDs TRI COLOUR

Specification	Red/Green/Amber
Luminous Intensity @20mA:	2.5mcd
Forward voltage:	2.4V
Cont. Forward Current (max):	30mA (max)
Power Dissipation:	150mW (max) @ 20°C Ambient
Reverse Current:	100µA
Reverse Voltage:	5V (max)
Operating Temp:	-40°C to +70°C
Part No:	/TR



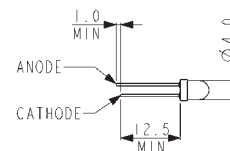
5mm LEDs DUAL COLOUR

Specifications	Red/Green	Red/Amber	Green/Amber
Luminous Intensity:	4.5/5mcd	4.5/4mcd	4/5mcd
Forward voltage:	2.2V	2.2V	2.2V
Cont. Forward Current:	30mA/30mA	30mA/20mA	30mA/20mA
Power Dissipation:	100mW/100mW	100mW/60mW	100mW/60mW
Reverse Current:	100mA	100mA	100mA
Reverse Voltage:	5V (max)	5V (max)	5V (max)
Operating Temp:	-40°C to +85°C		
Part No:	/D1	/D2	/D3



4mm LEDs Standard

Specifications	Red	Green	Yellow	Blue
Luminous Intensity @10mA:	2.5mcd	2.5mcd	2.5mcd	50mcd
Forward voltage:	2.0V	2.1V	2.0V	3.8V
Cont. Forward Current (max):	30mA	30mA	20mA	30mA
Power Dissipation (max) @ 20°C Ambient:	100mW	100mW	85mW	120mW
Reverse Current:	10µA	10µA	10µA	50µA
Reverse Voltage:	5V (max)	5V (max)	5V (max)	5V (max)
Part No:	/RD	/GN	/YL	/BL



Part No Breakdown

DXxxxx	/	XX	/	XX
Bezel Type		LED Colour RD = Red GN = Green YL = Yellow BL = Blue D1 = Dual Colour - 5mm (Red/ Green) D2 = Dual Colour - 5mm (Red/ Amber) D3 = Dual Colour - 5mm (Green/ Amber) TR = Tri Colour - 5mm (Red/ Green/Amber)		LED Options Blank = Standard 02 = Flashing - 5mm (Red or Green only)

Example:

DX1092/RD/02 = Black Aluminum IP66 Prominent Bezel, with Red flashing LED

International Approval Bodies

United Kingdom



B.S.I. Kitemark

BS EN ISO 9001:2000



B.S.I.
British Electro-Technical
Approvals Board

Austria



O.V.E

Australia



State Electricity
Commission of Victoria



The Regulatory
Compliance Mark
(RCM)

Belgium



CEBEC

Canada



C.S.A.

China



C.C.C.

Denmark



D.E.M.K.O

Europe



E.N.E.C.

Finland



F.I.M.K.O

Germany



V.D.E.

Holland



KEMA-KEUR

Italy



I.M.Q.

Norway



N.E.M.K.O.

South Africa



S.A. Bureau of
Standards

Sweden



S.E.M.K.O.

Switzerland



S.E.V.

U.S.A.



U.L. Recognised



U.L. Listed

Russia



GOST The State Committee
for Standards

Comparison Chart

Metric to AWG wire sizes



AWG	Cross Sectional Area in mm ²	Closest standard equivalent in mm ²
30	0.0503	0.05
29	0.0646	-
28	0.0804	-
27	0.102	0.1
26	0.128	0.14
25	0.163	-
24	0.205	0.2
23	0.259	0.25
22	0.325	-
21	0.412	-
20	0.519	0.5
19	0.653	-
18	0.823	0.75
17	1.04	1
16	1.31	-
15	1.65	1.5
14	2.08	-
13	2.63	2.5
12	3.13	-
11	4.15	4
10	5.27	-
9	6.62	6
8	8.35	-
7	10.6	10
6	13.3	-
5	16.8	16
4	21.2	-
3	26.7	25
2	33.6	35
1	42.4	-
0	53.4	50
2/0	67.5	70
3/0	85	95
4/0	107.2	120
5/0	135.1	150
6/0	170.3	185

IP Ratings Guide

The **IP classification** system designates the **degree of protection** provide by an enclosure against **solid objects** or **water ingress**.
Table I shows degrees of protection against solid objects, Table II shows degrees of protection against water.



Table 1 (1st characteristic numeral)
Degree of Protection against solid objects

Digit	
0	Non-protected
1	Protected against a solid object greater than 50mm, such as a hand.
2	Protected against a solid object greater than 12.5mm, such as a finger.
3	Protected against a solid object greater than 2.5mm, such as wire or a tool.
4	Protected against a solid object greater than 1.0mm, such as wire or thin strips.
5	Dust-protected. Prevents ingress of dust sufficient to cause harm.
6	Dust tight. No ingress of dust.

Degree of protection to - DIN 40050-9

Table 2 (2nd characteristic numeral)
Degree of Protection against water

Digit	
0	Non-protected
1	Protected against dripping water.
2	Protected against dripping water when tilted up to 15°.
3	Protected against spraying water at an angle of up to 60°.
4	Protected against splashing water from any direction.
5	Protected against jets of water from any direction.
6	Protected against heavy seas or powerful jets of water. Prevents ingress sufficient to cause harm.
7	Protected against the effects of temporary immersion in water.
8	Protected against the effects of continuous immersion in water.
69k	Protected against very high pressure, high temperature wash-down test.

Part No. Index



12023	24	DX1093	210 - 211	MP0012/1/Col	112	PNo.14232	42
12023/1	24	DX1116	211	MP0012/Col	112	PNo. 14232/1	24
12023/2	24	DX1118	211	MP0013	106	PNo.14232/2	42
12734	31	DX1120	209	MP0013/2	106	PNo 14277	151
12734/1	31	DX1121	209	MP0016	112	PNo 14317	151
12734/3	31	EXP-0911/02/P	10	MP0022/Col	113	PNo 14340	151
12734/3/1	31	EXP-0911/03/P	10	MP0027	95	PNo. 14917	42
12735	31	EXP-0911/04/P	10	MP0027/2	104	PNo.14944	42
12735/1	31	EXP-0911/05/P	10	MP0027/3	102	PNo. 14944/SP	50
12735/3	31	EXP-0911/07/P	10	MP0031	96	PNo.14945	42
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Terms and Conditions of Sale

All orders are accepted subject to our Standard Terms & Conditions. Copies of these are available:
www.elektron-technology.com/terms/

Health & Safety

Bulgin proprietary components are designed, manufactured, assessed and tested to comply with good commercial quality and engineering standards. They are safe and reliable in use within the vast majority of normal environments. In the interest of safety, application in certain extreme destructive or unsuitable environments must be avoided. The following restrictions are given as guidance:

- External or wet areas (exposed to rain or spray), except where designated "Sealed".
- Atmospheres designated as "explosive", except where designated "Gas Tight" or "Explosion Proof".
- Highly corrosive atmospheres or subject to contamination by corrosive chemicals. (Avoid the use of corrosive acid soldering flux. Use an approved Electrical Grade).
- Atmospheres containing a high density of abrasive dust (mechanically operated components).
- Contamination with Silicone or Silicone Compounds (switches).
- Areas or levels unprotected from severe impact by heavy bodies moving in close proximity - (panel mounted components).
- Extremes of temperatures, beyond the specified limits.
- Electric supply voltage or load current above the published maximum ratings.

General

To ensure electrical safety as far as is reasonably practical, these products should be properly applied, installed and maintained by or under the supervision of competent persons in accordance with good engineering practice.

Dimensions

All dimensions are in millimetres (mm) unless otherwise stated.

The CE Marking Directive

Equipment bearing the CE mark is allowed free circulation throughout Europe. The products in this catalogue, when installed correctly, comply with the CE requirements where it relates to them.

The Low Voltage Directive

The Low Voltage Directive 2006/95/EC seeks to ensure that electrical equipment within certain limits both provides a high level of protection for European citizens and enjoys a single market in the European Union. Where applicable, Bulgin products comply with the requirements of this directive.

RoHS

These European Directives introduced environmental responsibilities for electrical and electronics equipment manufacturers. The RoHS (Restriction of use of certain Hazardous Substances) regulation (Directive 2002/95/EC) came into force July 2006. The WEEE (Waste Electrical and Electronic Equipment) regulation (Directive 2002/96/EC), came into force January 2007.

The RoHS directive effectively bans the use of certain chemicals, these are defined as:

- Lead
- Cadmium
- Mercury
- Hexavalent Chromium
- Polybrominated Biphenyl (PBB) - flame retardant
- Polybrominated Diphenyl Ether (PBDE) - flame retardant (including Deca BDE)

Action has been taken to ensure all standard products meet the requirements of this directive. All packing carries RoHS compliance information as conformation.

REACH

REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) is the new system for controlling chemicals in Europe and became law in the UK on 1 June 2007. Elektron Technology as a manufacturer of articles, are reliant on our supply chain to ensure that the substances/articles we use, are in compliance with the EC1907/2006, REACH Regulations.

Our articles and their packaging, based on our knowledge at this point, do not contain any of the 15 substances on the SVHC Candidate List, dated 28th October 2008, nor any of the 14 substances added to the SVHC Candidate List, dated 13th January 2010, nor Acrylamide added to the SVHC Candidate List, dated 30th March 2010, according to article 59 (1, 10) of Regulation (EC) No. 1907/2006 (REACH), in a concentration above 0.1% weight by weight.

If this situation changes we confirm that this information will be passed through the supply chain in a timely manner.