


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, 600V AC/DC for 2, 3, 4 and 5 Contacts, 16A, 430V AC/DC for 7 Contact and 10A, 250V AC/DC for 10 Contacts. The 3, 4, 5 and 7 Contact 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:  Ex 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 Contact
- ⊕ Leading earth contact for 3, 4, 5 & 7 Contact versions
- ⊕ Trailing Neutral on 5 Contact
- ⊕ 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



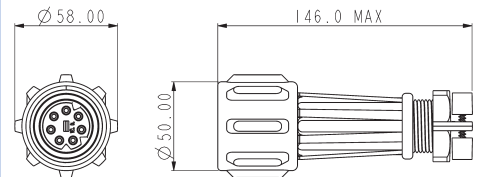
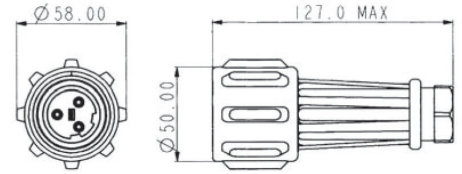
EXP-0911

Flex Cable Connector



EXP-A911

- Mates with Inline 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 PX0980
- EXP-A Series 20-22mm cable dia. Acceptance as standard, 14-20mm with additional Gland Pack PXA980
- Strain Relief Clamp



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

Inline Cable Connector



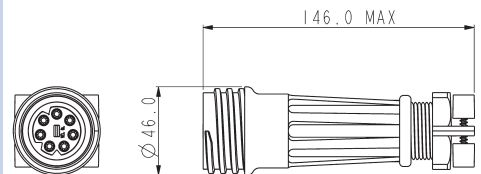
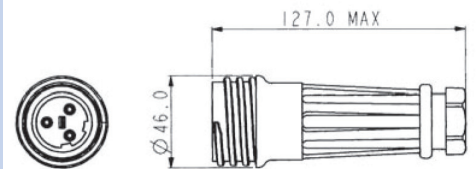
EXP-0921

Inline Cable Connector



EXP-A921

- 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 PX0980
- EXP-A Series 20-22mm cable dia. acceptance as standard, 14-20mm with additional Gland Pack PXA980
- Strain Relief Clamp



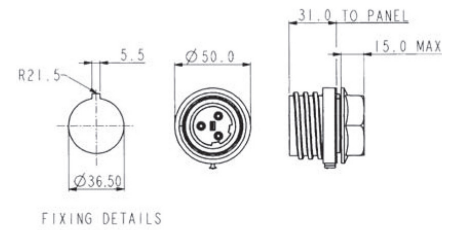
Standard Cable	Large Cable	Description	Standard Cable	Large Cable	Description
EXP-0921/02/P	EXP-A921/02/P	2 Contact Plug	EXP-0921/02/S	EXP-A921/02/S	2 Contact Socket
EXP-0921/03/P	EXP-A921/03/P	3 Contact Plug	EXP-0921/03/S	EXP-A921/03/S	3 Contact Socket
EXP-0921/04/P	EXP-A921/04/P	4 Contact Plug	EXP-0921/04/S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

Front 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**

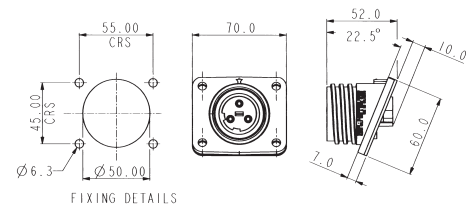
EXP-0931/02/P	2 Contact Plug	EXP-0931/02/S	2 Contact Socket
EXP-0931/03/P	3 Contact Plug	EXP-0931/03/S	3 Contact Socket
EXP-0931/04/P	4 Contact Plug	EXP-0931/04/S	4 Contact Socket
EXP-0931/05/P	5 Contact Plug	EXP-0931/05/S	5 Contact Socket
EXP-0931/07/P	7 Contact Plug	EXP-0931/07/S	7 Contact Socket
EXP-0931/10/P	10 Contact Plug	EXP-0931/10/S	10 Contact 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 Contact Plug	EXP-0941/02/S	2 Contact Socket
EXP-0941/03/P	3 Contact Plug	EXP-0941/03/S	3 Contact Socket
EXP-0941/04/P	4 Contact Plug	EXP-0941/04/S	4 Contact Socket
EXP-0941/05/P	5 Contact Plug	EXP-0941/05/S	5 Contact Socket
EXP-0941/07/P	7 Contact Plug	EXP-0941/07/S	7 Contact Socket
EXP-0941/10/P	10 Contact Plug	EXP-0941/10/S	10 Contact Socket

Sealing Caps



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

Cable Glands



PX0980, PXA980

- Packs of 3 additional pairs Cable Glands for 900 Series Flex Cable Connectors

**Gland Packs**

EXP-0980	Pack of 3 additional cable glands for EXP-0911 and EXP-0921 to suit cable sizes: 7-9mm (Dark Grey), 9-11mm (White) and 11-13mm (Black) diameter
EXP-A980	Pack of 3 additional cable glands for EXP-A911 and EXP-A921 to suit cable sizes: 14-16mm (Dark Grey), 16-18mm (White) and 18-20mm (Black) diameter

**EXP-X9                      X                      X                      /                      XX                      /                      X                      /                      X**

**Series Designation**

09 = Standard Cable Accommodation (ø7-15mm)

A9 = Large Cable Accommodation (ø14-22mm)

**Body Styles**

- 1 = Flex,
- 2 = Inline,
- 3 = Front Panel,
- 4 = Flange Panel

**Contact Termination**

- 1 = Screw Terminal

**Number of Contacts**

- 02
- 03
- 04
- 05
- 07
- 10

**Contact Type**

P = Plug, S = Socket

**Cable Acceptance**

**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 body, seven Plug contacts, with gland to suit 11-13mm cable.

**Contact Layout**



2 Contact



3 Contact



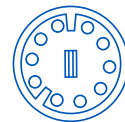
4 Contact



5 Contact



7 Contact



10 Contact

**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 Contacts:	2, 3, 4, 5	7	10
Current Rating:	18A	16A	10A
Voltage Rating:	600V AC/DC 430V AC/DC 250V AC/DC		
Contact Resistance:	<10mΩ (initial)		
Insulation Resistance:	>10 <sup>6</sup> MΩ (@ 500V DC)		
Dielectric strength:	2.2kV DC 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
<b>RoHS</b>	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 PX0980 EXP-A911 - EXP-A921 20 - 22mm O/D standard, 14 - 20mm with Gland Pack PXA980
Contact Accommodation:	2-7 Contact - 2.5 to 4mm <sup>2</sup> (14 to 10AWG) conductor, single or multi stranded 10 Contact - 0.75 to 2mm <sup>2</sup> (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	2.25Nm
Flange & Bulkhead fixing screws	0.9Nm
Rear thread EXP-0931 series	M36 x 2-6g

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