

The EXPlora Series Buccaneer circular power connectors are **explosion-proof connectors** suitable for 22 (Dust) applications.

Features and benefits:

- **Explosion-proof:** Suitable for use in environments with flammable gases, mists, vapors, or combustible dusts.
- **IP68 Ingress Protection:** Provides a secure, watertight, and environmentally sealed power connection when mated.
- **Robust design:** Ideal for harsh environments such as Oil & Gas, Mining, and Power Generation.
- **Versatile application:** Suitable for manufacturers of ancillary electrical equipment like motors, pumps, lighting, and control gear.

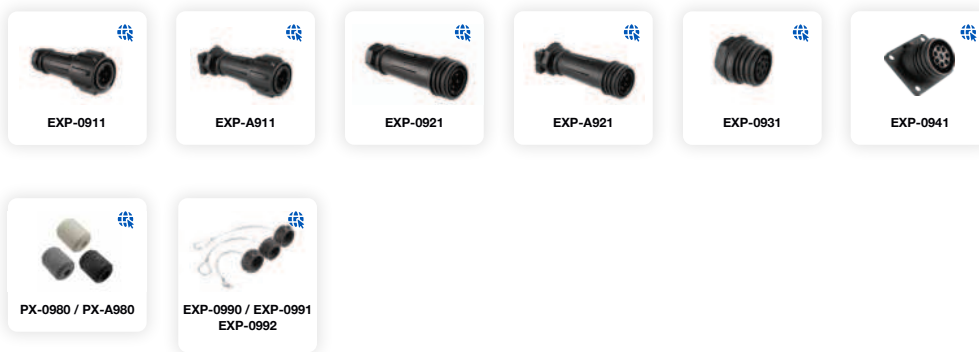


The EXPlora range is most suited to **manufacturers** of **ancillary electrical equipment** such as **motors, pumps, lighting equipment, process and control gear** for use in factories.

The compact design of the EXP-Series connectors contributes significantly to their ease of use in several ways:

- **Space-saving installation:** The connectors' compact size allows for installation in tight spaces, making them ideal for applications where space is at a premium.
- **Versatile cable management:** Despite their compact design, EXP-Series connectors accommodate a wide range of cable diameters, from 7 to 22mm O/D, providing flexibility in cable selection and installation.
- **Easy handling:** The compact design allows for easy manipulation, even with gloved hands. The positive, fast-acting locking ring can be turned easily, enhancing usability in various working conditions.
- **Simplified assembly:** The compact design contributes to easy assembly, requiring no special tools. This feature reduces installation time and complexity.
- **Efficient panel mounting:** The compact size allows for higher density installations on panels, with overall dimensions when mated ranging from 135mm to 270mm, depending on the specific connector combination.
- **Improved portability:** The compact nature of these connectors makes them easier to transport and handle on job sites, contributing to overall efficiency in installation and maintenance tasks.

// EXP Buccaneer Ranges:



Flex Cable Connector



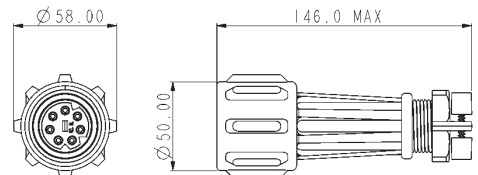
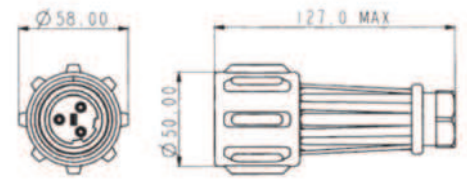
EXP-0911

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



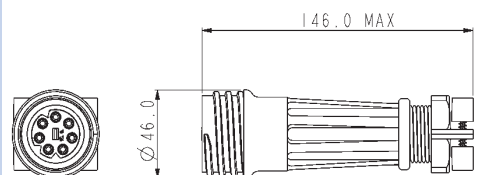
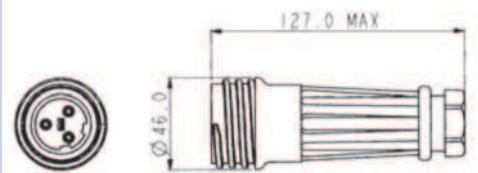
EXP-0921

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



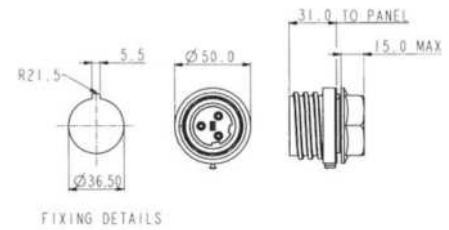
Standard Cable	Large Cable	Description	Standard Cable	Large Cable	Description
EXP-0921/02/P	EXP-A921/02/P	2 Contact Plug	EXP-0921/02/S	EXP-A921/02/S	2 Contact Socket
EXP-0921/03/P	EXP-A921/03/P	3 Contact Plug	EXP-0921/03/S	EXP-A921/03/S	3 Contact Socket
EXP-0921/04/P	EXP-A921/04/P	4 Contact Plug	EXP-0921/04/S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

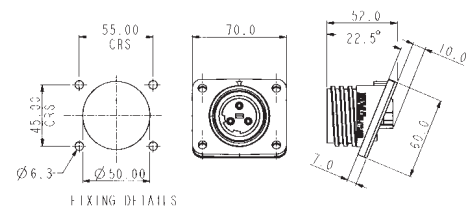
EXP-0931/02/P	2 Contact Plug	EXP-0931/02/S	2 Contact Socket
EXP-0931/03/P	3 Contact Plug	EXP-0931/03/S	3 Contact Socket
EXP-0931/04/P	4 Contact Plug	EXP-0931/04/S	4 Contact Socket
EXP-0931/05/P	5 Contact Plug	EXP-0931/05/S	5 Contact Socket
EXP-0931/07/P	7 Contact Plug	EXP-0931/07/S	7 Contact Socket
EXP-0931/10/P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

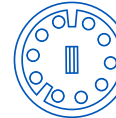


PX0980, PXA980

- 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	Body Styles	Contact Termination	Number of Contacts	Contact Type	Cable Acceptance
09 = Standard Cable Accommodation (ø7-15mm) A9 = Large Cable Accommodation (ø14-22mm)	1 = Flex, 2 = Inline, 3 = Front Panel, 4 = Flange Panel	1 = Screw Terminal	02 03 04 05 07 10	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 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 ⁶ MΩ (@ 500V DC)		
Dielectric strength:	2.2kV DC min		
AC Breakdown voltage:	6kV		
Ambient Temperature Range:	-20°C to +55°C		

Materials:

Body Mouldings:	Polyester
Cap Mouldings:	Polycarbonate
Flammability Rating:	UL94V-0
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 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 ² (14 to 10AWG) conductor, single or multi stranded 10 Contact - 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	2.25Nm
Flange & Bulkhead fixing screws	0.9Nm
Rear thread EXP-0931 series	M36 x 2-6g