BBULGIN

EXPLORA

EXP Series EXPlora - Hazardous Area





- 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
- Baseefa09ATEX0232X ATEX Certificate No:
- IP68 rating tested at 1.054kg/sg cm (15lb/sg 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

EXP Series EXPlora - Hazardous Area Connector

FLEX CABLE CONNECTOR



EXP-0911



EXP-A911

- 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 Series13-15mm 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 (EXP-A Series only)



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Flex Cable

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-0911/10/S	EXP-A911/10/S	10 pole Socket





- Mates with either EXP-0911 or EXP-A911 connectors
- Plug or socket versions
- EXP-0 Series13-15mm 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 (EXP-A Series only)





In-Line Flex Cable

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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-0921/10/S	EXP-A921/10/S	10 pole Socket

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EXP Series EXPlora - Hazardous Area Connector

PANEL MOUNTING CONNECTOR



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

52.0 Mates with EXP-0911 and 55.00 CRS Ľ 70.0 22 5 EXP-A911 connectors 10 . 0 Supplied with high grade sealing gasket Supplied with sealing grommets for panel fixing Ø6.3 Ø 50.00 screws (M6 thread FIXING DETAILS recommended) EXP-0941

Flange Mounting

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

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EXP Series EXPlora - Hazardous Area Connector

ACCESSORIES



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

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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 size 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.	

PART NO SYSTEM

	le Accommodation (7-13mm)	EXP-09 x x /	′ <u>xx</u> / <u>x</u> / <u>x</u> / <u>x</u>
A9 = Large Cable / Body Styles 1 = Flex, 2 = Flex 3 = Panel, 4 = Fla			
Contact Termination 1 = Screw Terminal			
	3 pole, 04 = 4 pole, 7 pole, 10 = 10 pole		
Contact Type P = Plug, S = Sock	et		
Cable Acceptance EXP-0 version: Blank = 13-15mm 3 = 11-13mm 2 = 9-11mm 1 = 7-9mm	Yellow cable gland (standard) Black cable gland White cable gland Dark Grey cable gland	EXP-A version: Blank = 20-22mm 9 = 18-20mm 8 = 16-18mm 7 = 14-16mm	Yellow cable gland (standard) Black cable gland White cable gland 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.



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EXP Series EXPlora - Hazardous Area Connector

SPECIFICATION

Electrical:		Mechanical:	
No Poles: Current Rating:	2, 3, 4, 5 7 10 18A 16A 10A	Sealing:	IP68, EN60529:2001 tested @ 1.054kg/sq.cm. (15lb/sq.in.) 10m depth for 2 weeks
Voltage Rating: Contact Resistance: Insulation Resistance:	600Vac/dc 430Vac/dc 250Vac/dc <10mΩ (initial) >10 ⁶ MΩ (@ 500V dc)	Cable Acceptance:	EXP-0911 - EXP-0921 13 - 15mm O/D standar 7-13mm with gland pack EXP-A911 - EXP-A921 20 - 22mm O/D standar 14 - 20mm with gland pack
Dielectric strength: AC Breakdown voltage:	2.2kV ac min 6kV	Contact Accommodation:	2.5 to 4mm² (13 to10AWG) conductor, single or multi stranded
Ambient Temperature Range: Standards:	-20°C to +55°C ATEX Zone 2 and Zone 22 IEC60079-0:2007 IEC60079-15:2005	Termination: Cable Retention force:	Axial screw terminals 22mm dia, 150N 15mm dia, 150N 7mm dia, 80N
ATEX Coding: ATEX Certificate No: ATEX Classification:	Ex nA IIC T6 Gc Ex tc IIIC T85°C Dc	Gland Nut Torques: EXP-0 range 13-15mm (Yellow - std.) 11-13mm (black) 9-11mm (white) 7-9mm (dark grey)	3.16Nm (28 lb/in) 3.16Nm (28 lb/in) 3.16Nm (28 lb/in) 3.16Nm (28 lb/in)
Materials:		EXP-A range 20-22mm (Yellow - std.) 18-20mm (black) 16-18mm (white) 14-16mm (dark grey)	3.16Nm (28 lb/in) 3.16Nm (28 lb/in) 3.16Nm (28 lb/in) 3.16Nm (28 lb/in)
Body Mouldings: Flammability Rating: UV Resistance:	Polyester UL94V-0 To EN50021:1999	Tightening Torques: Panel mount nut Flange & Bulkhead	2.25 Nm
Contacts: O Rings:	Machined Solid Brass, Nickel plated Nitrile	fixing screws	0.9 Nm

Dimensions:

CONTACT LAYOUT

RoHS

Panel Sealing Gasket:



Silicone Rubber

Compliant



Overall dimensions of connectors when mated togetherEXP-0911 + EXP-0921230 mm max.EXP-A911 + EXP-A921270 mm max.EXP-0911 + EXP-0931135 mm max. (to panel)EXP-A911 + EXP-A931175 mm max. (to panel)

EXP-0911 + EXP-0941145 mm max. (to panel, mid point on flange)EXP-A911 + EXP-A941174 mm max. (to panel, mid point on flange)