



A2FX-R

DOUBLE COMPRESSION GLAND for Unarmoured Tray Cable

Features and Benefits

- Gland for use in Ordinary and Hazardous Locations.
- Fitted with two specially formulated elastomeric displacement seals, for dual redundancy. and superior cable retention, explosion protection and IP rating.
- Precision manufactured from high quality brass (Marine Grade Electroless Nickel Plated™) available in aluminium or stainless steel 316/316L on request. (Note: Aluminium not suitable for Group I applications.)
- Supplied with a thread sealing gasket.



Technical Data

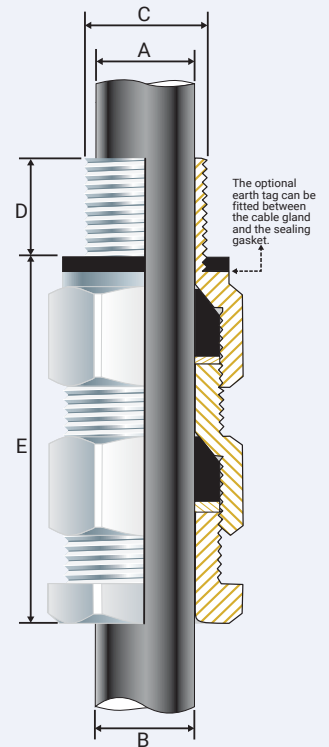
Type:	A2FX-R
Gland Material:	Brass (Marine Grade Electroless Nickel Plated™), Aluminium or Stainless Steel 316/316L
Seal Material:	Standard Thermoset Elastomer or Extreme Temperature Seals
Sealing Gasket Material:	HDPE, Nylon 66 or PTFE
Cable Type:	Unarmoured Tray Cable
Sealing Area:	Outer Sheath (may be used on cables with inner and outer sheaths)
Optional Accessories:	Adaptor, Reducer, Earth Tag, Locknut, Serrated Washer and Shroud
Note:	The installer should ensure that the materials are suitable for the installation environment.

Temperature Range

When fitted with sealing gaskets the temperature range for the gland will be:-
Sealing Gasket Material: Standard Seals: -60°C and +95°C/100°C(HDPE/Nylon Sealing Gasket)
 Extreme Temp. Seals: -60°C and +160°C (PTFE Sealing Gasket)

Standards and Certifications

Equipment Protection Levels:	NEC / CEC: Cl I Div. 2 Gr ABCD, Cl II Div. 2 Gr FG, Cl III Div 2 Ex db IIC Gb, Cl I Zn 1 AEx eb IIC Gb / Ex eb IIC Gb Zn 20 AEx ta IIIC Da / Ex ta IIIC Da, Cl I Zn 2 AEx nR IIC Gc / Ex nR IIC Gc, IP66/67/68, IP65, Type 4X IECEX: Ex db eb I Mb, Ex db eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da	
Conformance:	Standard:	Certificate:
CEC	CSA C22.2 No. 18.3-12, 174:2018 & 213:2017	E115595
NEC	CSA C22.2 No. 60079 - 0, 1, 7, 15, 31	
IECEX	IEC 60079 - 0, 1, 7, 15, 31	IECEX TSA 23.0026
IP66/67/68 850m - Parallel	IEC60529	CML 15Y728
IP68 – Tapered and approved grease	IEC 60529	IECEX TSA 23.0026
Nema Type 4X	NEMA 250	E115595
Deluge Protection	DTS-01	CML 14CA370-2
Corrosion Protection	ASTM B117-11, BS EN ISO 3231	EXOVA N968667
Marine ABS	IEC/EN 60079 - 0, 1, 7, 15, 31, IEC 60529	25-0164964-PDA
DNV	IEC/EN 60079 - 0, 1, 7, 15, 31, IEC 60529	TAE0000010



PATENTED



Installation Requirements / Specific Conditions of Use

- The cable glands, sizes M20, 3/4" NPT and smaller, shall only be used on fixed installations where the cable is clamped, or stress applied to the cable in the gland is prevented. (NEC/CEC only)
- The cable glands, when supplied with suffix '-FC', shall only be used with an approved UL 514B conduit fitting. (NEC/CEC only)
- The cable glands shall only be used if the temperature, at the point of entry, is as specified above.

NPT Entry Thread

Gland Size Ref	Product Code	NPT Entry Thread		Alternative Thread Product Code	NPT Entry Thread		Cable Detail		Maximum Length 'E'	Hexagonal Detail	
		'C'	Min 'D'		'C'	Min 'D'	Min 'B'	Max 'B'		Max 'Flats'	Max 'Crns'
00-20ss	057700-012NPT-MNA	1/2	0.590	057700-034NPT	3/4	0.590	0.118	0.335	1.810	0.945	1.063
0-20s	0577-0-012NPT-MNA	1/2	0.590	0577-0-034NPT	3/4	0.590	0.275	0.453	1.810	0.945	1.063
1-20	057701-012NPT-MNA	1/2	0.590	057701-034NPT	3/4	0.590	0.433	0.590	2.125	1.063	1.181
2s-25s	057722-034NPT-MNA	3/4	0.590	057722-001NPT	1	0.748	0.453	0.689	2.125	1.377	1.535
2-25	057702-034NPT-MNA	3/4	0.590	057702-001NPT	1	0.748	0.590	0.787	2.125	1.377	1.535
3s-32s	057733-001NPT-MNA	1	0.748	057733-114NPT	1 1/4	0.748	0.630	0.866	2.283	1.653	1.850
3-32	057703-001NPT-MNA	1	0.748	057703-114NPT	1 1/4	0.748	0.787	1.043	2.283	1.653	1.850
4s-40s	057744-114NPT-MNA	1 1/4	0.748	057744-112NPT	1 1/2	0.826	0.866	1.240	2.597	2.046	2.322
4-40	057704-114NPT-MNA	1 1/4	0.748	057704-112NPT	1 1/2	0.826	1.023	1.338	2.597	2.046	2.322
5s-50s	057755-112NPT-MNA	1 1/2	0.826	057755-002NPT	2	0.826	1.141	1.495	3.227	2.558	2.873
5-50	057705-112NPT-MNA	1 1/2	0.826	057705-002NPT	2	0.826	1.338	1.751	3.227	2.558	2.873
6s-63s	057766-002NPT-MNA	2	0.826	057766-212NPT	2 1/2	1.181	1.495	1.968	3.621	3.148	3.542
6-63	057706-002NPT-MNA	2	0.826	057706-212NPT	2 1/2	1.181	1.751	2.224	3.621	3.148	3.542
7s-75s	057777-212NPT-MNA	2 1/2	1.181	057777-003NPT	3	1.259	1.968	2.440	3.699	3.778	4.250
7-75	057707-212NPT-MNA	2 1/2	1.181	057707-003NPT	3	1.259	2.204	2.656	3.699	3.778	4.250
8-80	057708-003NPT-MNA	3	1.259	-	-	-	2.125	2.715	4.565	3.778	4.250
9s-90s	057799-003NPT-MNA	3	1.259	057799-312NPT	3 1/2	1.299	2.361	2.952	4.683	4.368	4.919
9-90	057709-003NPT-MNA	3	1.259	057709-312NPT	3 1/2	1.299	2.873	3.207	4.683	4.368	4.919
10-100	057710-312NPT-MNA	3 1/2	1.299	057710-004NPT	4	1.338	3.188	3.581	4.683	4.919	5.549
11-110	057711-004NPT-MNA	4	1.338	-	-	-	3.581	3.975	5.037	5.313	5.982

All dimensions are in inches. NPT threads should be tightened 'wrench tight'

FITTING INSTRUCTIONS

Metric Entry Thread

Gland Size Reference	Product Code	Metric Entry Thread		Cable Detail		Maximum Length 'E'	Hexagonal Detail		Tightening Torque Nm/ lb ft
		'C'	Min 'D'	Min 'B'	Max 'B'		Max 'Flats'	Max 'Crns'	
00-20ss	057700-MNA	M20x1.5	0.591	0.118	0.335	1.811	0.945	1.063	33/24
0-20s	05770-MNA	M20x1.5	0.591	0.276	0.453	1.811	0.945	1.063	33/24
1-20	057701-MNA	M20x1.5	0.591	0.433	0.591	2.126	1.063	1.181	33/24
2s-25s	057722-MNA	M25x1.5	0.591	0.453	0.689	2.126	1.378	1.535	48/35
2-25	057702-MNA	M25x1.5	0.591	0.591	0.787	2.126	1.378	1.535	48/35
3s-32s	057733-MNA	M32x1.5	0.591	0.630	0.866	2.283	1.654	1.850	55/41
3-32	057703-MNA	M32x1.5	0.591	0.787	1.043	2.283	1.654	1.850	55/41
4s-40s	057744-MNA	M40x1.5	0.591	0.866	1.240	2.598	2.047	2.323	65/48
4-40	057704-MNA	M40x1.5	0.591	1.024	1.339	2.598	2.047	2.323	65/48
5s-50s	057755-MNA	M50x1.5	0.591	1.142	1.496	3.228	2.559	2.874	83/61
5-50	057705-MNA	M50x1.5	0.591	1.339	1.752	3.228	2.559	2.874	83/61
6s-63s	057766-MNA	M63x1.5	0.591	1.496	1.969	3.622	3.150	3.543	98/72
6-63	057706-MNA	M63x1.5	0.591	1.752	2.224	3.622	3.150	3.543	98/72
7s-75s	057777-MNA	M75x1.5	0.591	1.969	2.441	3.701	3.780	4.252	116/85
7-75	057707-MNA	M75x1.5	0.591	2.205	2.657	3.701	3.780	4.252	116/85
8-80	057708-MNA	M80x2.0	0.787	2.126	2.717	4.567	3.780	4.252	120/89
9s-90s	057799-MNA	M90x2.0	0.787	2.362	2.953	4.685	4.370	4.921	120/89
9-90	057709-MNA	M90x2.0	0.787	2.874	3.209	4.685	4.370	4.921	120/89
10-100	057710-MNA	M100x2.0	0.787	3.189	3.583	4.685	4.921	5.551	120/89
11-110	057711-MNA	M110x2.0	0.787	3.583	3.976	5.039	5.315	5.984	175/129
12-120	057712-MNA	M120x2.0	0.787	3.976	4.291	5.315	5.512	6.220	175/129
13-130	057713-MNA	M130x2.0	0.787	4.291	4.567	5.315	5.748	6.457	175/129

All dimensions are in inches.

FITTING INSTRUCTION

ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

- Must be made from materials which are compatible with the cable gland materials.
 - Have a sealing area around the cable gland entry point with a surface roughness < Ra 6.3 µm.
 - Have entries that are perpendicular to the enclosure face in the area where the cable gland will seal to within 2.5°.
 - Are sealed using the supplied sealing gasket (parallel threads) or by fully tightening into a threaded entry (tapered threads).
- Note that for tapered threads the IP rating can be improved to IP68 with the use of a suitable thread sealant.

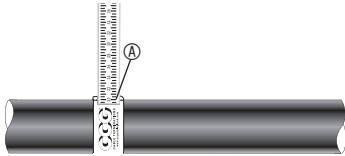
MUST HAVE THREADED ENTRIES

- The same thread size as the cable gland. (Thread adapters should be used to correct

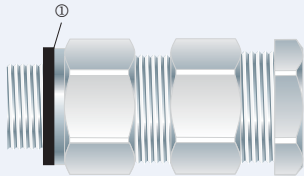
- any mismatch).
- With a thread tolerance of metric class '6H' or equivalent.
- Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

OR CLEARANCE HOLES (not Ex d)

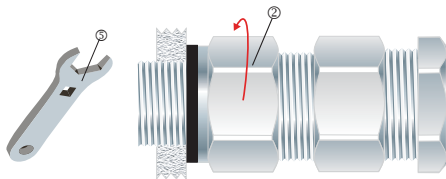
- Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7mm. (e.g. the clearance hole for an M20 thread will have a diameter between 20.1mm and 20.7mm).
- Through material that is between 1mm and 12mm thick. (Thicker materials can be accommodated using glands with extended entry threads.)



1. For accurate sizing, use a CCG Dimension Tape (A) on the outer cable sheath.

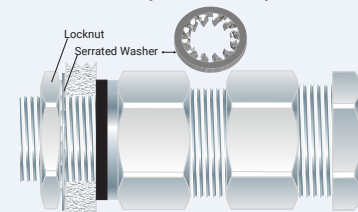


2. To maintain IP66/68, ensure the gasket (1) is in place.

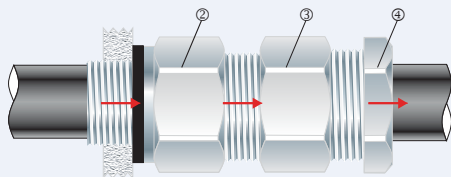


3. Screw the gland unit into the apparatus. Tighten the inner (2) to the installation torque using a CCG Spanner (5).

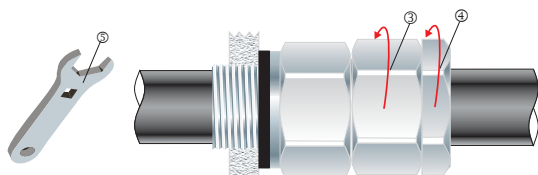
Alternative installation through an unthreaded entry.



If the apparatus is unthreaded use a locknut.



4. Pass the outer nut (4), body (3) and inner (2) (gland assembly) over the cable.



5. Tighten the body (3) to the installation torque using a CCG Spanner (5) to produce a seal and grip on the cable. Tighten the outer nut (4) to produce an additional seal and grip on the cable.