INSTALLATION INSTRUCTION
CABLE GLAND A2F

A2F

CABLE GLAND FOR USE WITH UNARMOUED AND BRAIDED ARMOUR CABLES.

INSTALLATION NOTES.

1. Only qualified personnel should carry out installation, using appropriate tools such as spanners, in line with EN/IEC 60079-14 standards. All inspection and maintenance tasks must also be performed by certified professionals as per EN/IEC 60079-17 and EN/IEC 60079-14 guidelines.
2. When installing a cable entry system to an enclosure, additional sealing is required to achieve higher Ingress Protection (IP) levels beyond IP54. For hazardous gas environments, a minimum of IP54 is necessary, and for dust-laden environments, at least IP6X. Use a EARTHLINKS sealing washer or an integral O-ring face seal on parallel or tapered threads (especially for non-threaded entries) to maintain IP66, IP67, or IP68 where applicable. Installers must ensure the IP rating is achieved at the connection point.
3. Note: When used with threaded entries, tapered threads naturally provide IP68 ingress protection.
4. Cable glands are non-repairable items and must not be opened or serviced.
5. If dismantling of a cable gland is required for inspection, it must be correctly reassembled following the given instructions. Only authorized and competent individuals should perform this task according to EN/IEC 60079-17.
6. Cable glands marked with Ex db certification can be offered only with Metric or NPT threaded entries.
7. The enclosure surface should be smooth and flat, with any mold or casting angles machined to form a flat perpendicular sealing face. This ensures effective sealing with an O-ring or sealing washer for the intended IP rating. The enclosure must also be robust enough to support the weight and stress of the gland and cable assembly. Cable entry points must be perpendicular to maintain sealing integrity.
8. For through-hole enclosures, ensure the hole is clean, round, and free of burrs. The hole diameter must not exceed 0.7 mm more than the nominal thread diameter of the gland. A suitable locknut must be used to secure the gland in place.
9. Earth tags should be installed where grounding is required. The Earth Tag must meet the requirements for Category B classification as per IEC/EN 62444 standards.

IMPORTANT SAFETY USAGE CONDITIONS

1. These cable glands are approved for use in environments with temperatures ranging from -40°C to +85°C when used with EPDM thermoset seals, along with Nylon Skid Washers and Nylon IP Washers.
2. For higher temperature applications, cable glands can operate effectively between -55°C and +175°C when equipped with Silicon thermoset seals, PPS Skid Washers, and Silicone O-rings.
3. It is essential to secure cables firmly to prevent strain, pulling, or twisting—especially for Type A2F cable gland series—to ensure that mechanical stress is not transferred to the termination points.
4. Cable glands should be used only with cables that have a consistently round cross-section.
5. When enhanced safety or dust protection is required and the gland is installed in a smooth, plain hole, the hole's diameter must not exceed the male thread's major diameter by more than 0.7 mm. The gland must be locked in place using an appropriate locknut.
6. Installation of the cable gland must comply with IEC 60079-14 standards and requirements.

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Technical Specifications.

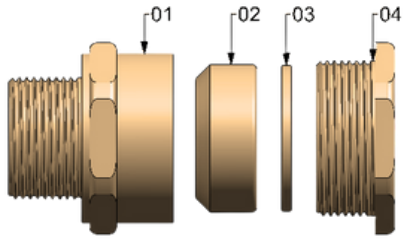
Type	A2 INDUSTRIAL CABLE GLAND
Size	16MM TO 90MM
Applications	Provide Mechanical Cable Retention & Electrical continunity via Armoured Wire termination In indoor area. It is Easy to Install.
Operating Temp	-60°C To +180°C.
Material	Brass (BS EN 12164/ Grade CuZn39Pb3).
Seal Material	Thermoset Elastomer.
Standard Thread	ISO Metric.
Cable Type	Unarmoured & Braided.
Sealing Technique	Inner Displacement Seal.
Sealing Area	Cable Outer Sheath.
Optional Gland Material.	Brass Nickel Plated, Aluminium
Optional Accessories.	Adaptor, Reducer, Earth Tag, Lock Nut, Serrated Washer, Shroud.
Cable Gland Kit	1 Cable Gland, 1 Lock Nut 1 Earth Tag, 1 PVC Shroud

A2 INDUSTRIAL CABLE GLAND SIZE TABLE.

CABLE GLAND SIZE	ENTRY THREAD E			MINIMUM THREAD LENGTH	MAXIMUM LENGTH	ACROSS FLATS	ACROSS CORNES	OVERALL CABLE DIAMETER	
	STANDARD		OPTION	L1	L	AF	AC		
	METRIC	NPT*	NPT*	METRIC	MAX	MAX	MAX	MIN	MAX
20S/16	M20	1/2*	3/4*	12	25.5	24	26.4	3.1	8.8
20S	M20	1/2*	3/4*	12	25.5	24	26.4	6.1	11.8
20	M20	1/2*	3/4*	12	27.3	27	29.7	8.5	14
25S	M25	3/4*	1*	12	29	31	34.1	10	16
25	M25	3/4*	1*	12	35.7	36	39.5	14	20
32	M32	1*	1-1/4*	12	35	41	45	17	26.4
40	M40	1-1/4*	1-1/2*	15	34.8	50	50	23.5	32.3
50S	M50	1-1/2*	2*	15	33	55	55	32	38.5
50	M50	2*	2-1/2*	15	36	60	60	35.5	44
63S	M63	2*	2-1/2*	15	34	70	70	41.4	50
63	M63	2-1/2*	3*	15	36	75	75	47	56.2
75S	M75	2-1/2*	3*	15	33.5	80	80	54	62.1
75	M75	3*	3-1/2*	15	39	85	85	60	68.3
90	M90	3-1/2*	4*	20	58.5	108	108	66.6	80

*All Dimensions are in millimetres.(Except * where dimensions are in inches)*

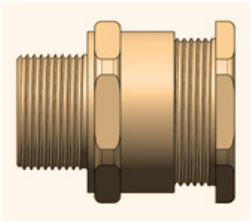
CABLE GLAND COMPONENTS



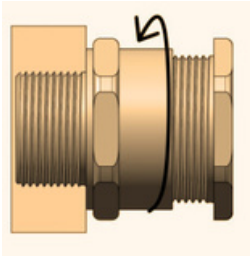
01 Entry Components
02 Entry Thermoset Seal
03 Entry Skid Washer
04 Compression Nut

READ ALL INSTRUCTION CAREFULLY BEFORE INSTALLATION

Step 1 : It it not required to dismantle the Gland any further than shown.



Step 2 : Fit the Gland into equipment and fully tighten the entry Component(01)



Step 3 : Prepare the conductor length required to suit the installation. Now use a suitable tool to remove the outer sheath of the cable to a length that matches the size of the Gland. Expose the inner metal armour if that is present.

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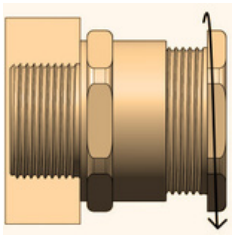
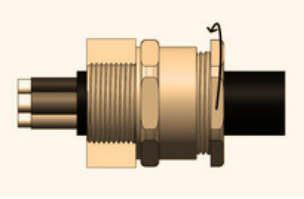
Step 4 : Loosen the Compression Nut (04) to relax the Entry Thermoset Seal (02)



Step 5 : Pass the Cable through the Gland to the desired position, then tighten the Compression Nut-04 by hand until resistance is felt. Now hold Entry Component-01 with one spanner and tighten Compression Nut-04 with second sapnner as per below tightening torque.



Tightening Torque Value in Nm : Metric/NPT (For A2F)														
Size	20S/16	20S	20	25S	25	32	40	50S	50	63S	63	75S	75	90
Torque	12	12	17	12	23	23	28	45	45	55	55	65	80	100

Tightening Torque Value in Nm : Metric/NPT (For A2F-HT)														
Size	20S/16	20S	20	25S	25	32	40	50S	50	63S	63	75S	75	90
Torque	22	22	22	22	33	33	50	65	80	80	75	105	80	100