

INSTALLATION INSTRUCTION CABLE GLAND A2F & A2F-HT



CABEX®

CA-A-740-B R0-01/02/2024

Technical Data	
Type	A2F & A2F-HT
Ingress Protection Rating	IP 66 / IP 68
Process Control System	ISO 9001:2015 & ISO/IEC 80079-34:2018
ATEX Certification No	DNV 22ATEX73142X
Code of Protection	Ex db 2G 1D CE 2460, IP66/IP68
IECEX Certification No	IECEX DNV 22.0002X
Code of Protection	Ex db C Gb, Ex eb C Gb, Ex ta C Da
Operating Temperature	-40° C to + 85° C** / -55° C to + 175° C*** (HT)
Optional Accessories	Earth Tag, Lock Nut, Serrated Washer, Entry Thread Sealing Washer, Shroud
Special Condition for Safe Use	Read Special Condition for Safe Use****

** For this Temperature range : Thermoset Seal Black Colour

*** For this Temperature range : Thermoset Seal Red Colour

A2F & A2F-HT Cable Gland Selection Table										
Cable Gland Size	Gland Dimensions						Cable Dimensions			
	Entry Thread			Minimum Thread Length		Maximum Length	Across Flats	Across Corners	Overall Cable Diameter	
	Standard		Option	Metric	NPT	Max	Max	Max	Min	Max
	Metric	NPT*	NPT*	Metric	NPT	Max	Max	Max	Min	Max
20S/16	M20	1/2"	3/4"	15.00	20.00	25.00	24.00	26.25	3.10	8.70
20S	M20	1/2"	3/4"	15.00	20.00	25.00	25.00	27.50	7.00	11.70
20	M20	1/2"	3/4"	15.00	20.00	26.00	27.00	29.75	10.00	14.00
25S	M25	3/4"	1"	15.00	20.50	29.00	31.00	34.00	11.00	16.00
25	M25	3/4"	1"	15.00	20.50	32.00	36.00	39.50	14.50	20.00
32	M32	1"	1-1/4"	15.00	25.50	33.00	44.00	48.50	18.50	26.40
40	M40	1-1/4"	1-1/2"	15.00	26.00	35.00	52.00	57.25	25.00	32.30
50S	M50	1-1/2"	2"	15.00	26.50	33.00	58.00	63.75	31.50	38.50
50	M50	2"	2-1/2"	15.00	27.00	36.50	63.00	69.25	36.50	44.00
63S	M63	2"	2-1/2"	15.00	27.00	34.00	72.00	79.00	42.50	50.00
63	M63	2-1/2"	3"	15.00	40.00	38.00	80.00	88.00	48.50	56.20
75S	M75	2-1/2"	3"	15.00	40.00	36.50	83.00	91.25	55.00	62.00
75	M75	3"	3-1/2"	15.00	42.00	42.50	90.00	99.00	61.50	68.00
90	M90	3-1/2"	4"	20.00	43.00	53.50	106.00	116.50	65.00	80.00

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

EU Declaration of Conformity in accordance with ATEX Directive 2014/34/EU.

Cabex Electrical Components on its sole responsibility declare that the A2F & A2F-HT products complies with the requirements of the ATEX Directive 2014/34/EU and also comply with the requirements of EN 60079-0:2018, EN 60079-1:2014, EN 60079-7:2015 + A1:2018, EN 60079-31:2014 where applicable.

On behalf of the aforementioned company, I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and statutory regulatory requirements of the above listed directives.


Kekin R. Trada (Ex Person).

Address: Cabex Electrical Components
Plot No 4, GIDC, Phase-2, Dared,
Jamnagar-361004 (Gujarat) (India)

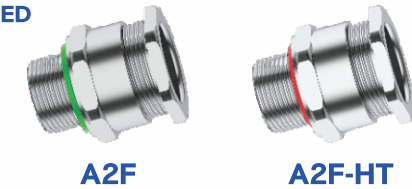
Place : Jamnagar, Gujarat, India. & Date : 01/02/2024  Notified Body : DNV Product Assurance AS

INSTALLATION INSTRUCTION CABLE GLAND A2F & A2F-HT



CABEX®

CABLE GLAND FOR USE WITH UNARMoured AND BRAIDED ARMoured CABLES.



INSTALLATION NOTES

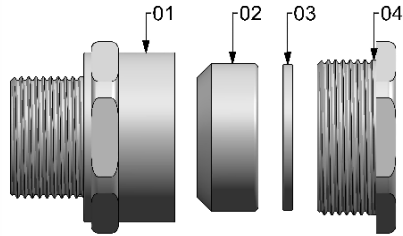
- Installation shall only be performed by a competent person (in accordance with EN/IEC 60079-14) using the correct tools, Spanners should be used for tightening. Inspection & maintenance shall be done by a competent person (in accordance with EN/IEC 60079-17 & EN/IEC 60079-14).
- The interface between a cable entry device & its enclosure will required additional sealing to achieve Ingress Protection (IP) ratings higher than IP54. For Explosive Gas Atmospheres-Min IP54 and For Explosive Dust Atmospheres-Min IP6X. Parallel threads (and tapered threads when using a non-threaded entry) required a CABEX sealing washer or Integral O-ring face seal to maintain IP66, IP67, IP68 when applicable. It is the installers responsibility to ensure the IP rating is maintained at the interface. Note: When fitted to a threaded entry, all tapered threads will automatically provide an ingress protection of IP68.
- Cable Glands are not intended to be repaired as they do not have any serviceable parts.
- For inspection if cable gland is dismantled, shall be re-assembled again as per instruction given and this inspection must be done by competent person only as per EN/IEC 60079-17.
- Ex db marked cable glands can only be supplied with Metric or NPT entry threads.
- The enclosure surface finish must be flat & smooth & any draft angles from the casting/moulding process shall have a perpendicular flat spot machined to facilitate sealing with an entry thread sealing washer or O-ring for required IP rating. The enclosure shall be enough strong to support the cable and cable gland assembly. The enclosure entries must be perpendicular.
- When enclosure having through hole it is recommended hole must be circular, free of burrs and diameter shall not be larger than 0.7mm above the nominal thread diameter of cable gland and lock nut shall be used to secure the cable gland.
- The Earth Tag should be used when it is necessary to provide earth bond connection. Earth Tag comply with category B rating as per IEC/EN 62444.

SPECIAL CONDITION FOR SAFE USE****

- Cable Glands are suitable for use within an operating temperature range of -40° C to +85° C when fitted with EPDM thermoset seal, Nylon Skid Washer & Nylon IP Washer.
- Cable Glands are suitable for use within an operating temperature range of -55° C to +175° C when fitted with Silicon thermoset seal, PPS Skid Washer & Silicon O ring.
- Cables must be effectively clamped to prevent pulling and twisting for Type CECEX-A2F** ** **series of cable glands to ensure that pulling is not transmitted to the terminations.
- The cable glands shall only be used with substantially round cables.
- When the cable glands are used for increased safety or dust protection in a plain hole, the hole in the enclosure must not be greater than 0.7mm above the major diameter of the male thread and the cable glands must be secured with a locknut.
- Cable gland must be installed in accordance with requirements of IEC 60079-14.

Note : For IP 68 installation instruction please contact CABEX.

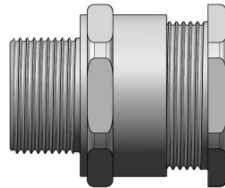
CABLE GLAND COMPONENTS



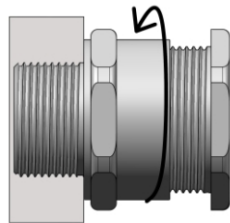
- 01 Entry Components
- 02 Entry Thermoset Seal
- 03 Entry Skid Washer
- 04 Compression Nut

READ ALL INSTRUCTION CAREFULLY BEFORE INSTALLATION

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



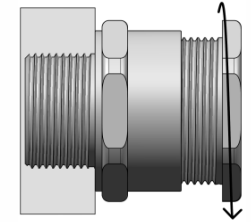
Step 2 : Fit the Gland into the equipment and fully tighten the Entry Component (01).



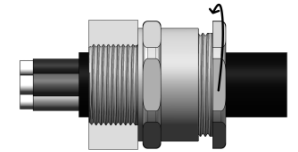
Step 3 : Prepare the conductor length required to suit the installation. Now use a suitable tool to remove the outer sheath of the cable to a length that matches the size of the Gland. Expose the inner metal armour if that is present.



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 spanner 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