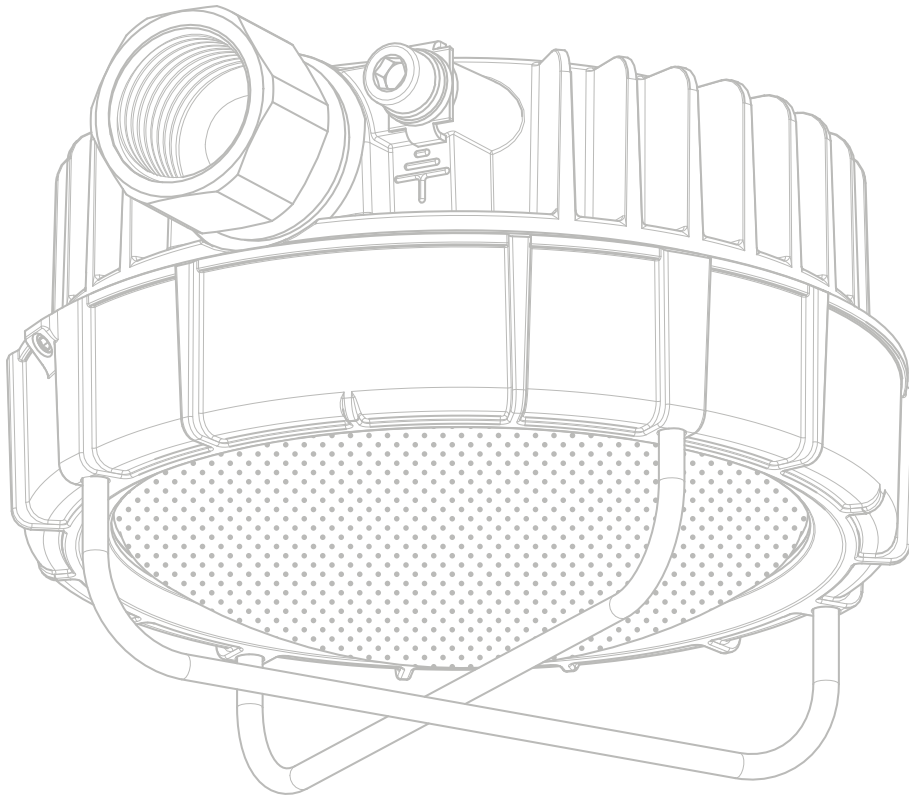# ARCUS

Plafond ™ Family

APPLICATION

PLAFOND™ LED luminaire for Low Bay and Area illumination is designed for indoor/outdoor industrial and hazardous locations which include wet locations and marine environments.
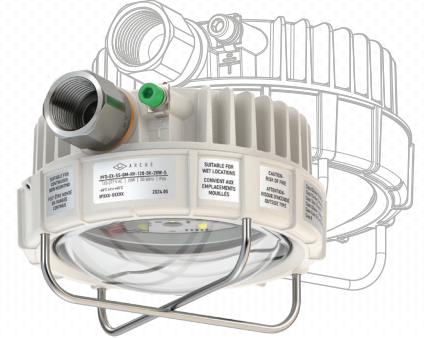The Plafond's unique design combines innovative technology, industrial safety and lighting science.

The luminaire features:
• Engineered optics that create an optimized lighting pattern
• Heat-sinking technology that provides a maintenance free long life LED
• Energy efficient LEDs that minimize energy consumption
• Extremely compact and lightweight with low profile for versatile installation areas

MODELS ARE SUITABLE FOR USE IN THE FOLLOWING LOCATIONS:

– Use in Hazardous (Classified) Locations only as per 844 UL
– Outdoor Type (Salt Water) as per UL1598A
– Wet Locations as per UL 1598

NOTE (!): This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved

WARNING

1. Turn off any supplying power before wiring or opening already wired luminaires.

2. While cleaning, wipe the luminaire with moist fabric only to avoid occurring of electrostatic charging.

3. Make sure the supply voltage is the same as the rated luminaire voltage.

4. Do not operate in ambient temperatures above those indicated on the luminaire nameplate.

READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION!

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PART I. PLAFOND™ INSTALLATION AND MOUNT

Important (!): Prepare a clean surface to keep parts during assembly. Check to ensure all parts are there.

1.   Unscrew set screw (1) (see Fig. 1) then turn the Plafond face down and unscrew its lid- diffuser sandwich, carefully remove it from Plafond's enclosure, and place on prepared clean surface.

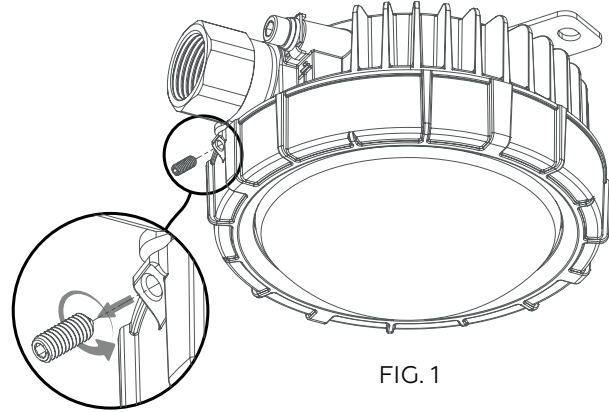   **Warning (!):** the lid-diffuser sandwich components are not connected, be careful and keep them together.

FIG. 1

Depending on the version of the luminaire, the lid-diffuser sandwich includes the following elements:
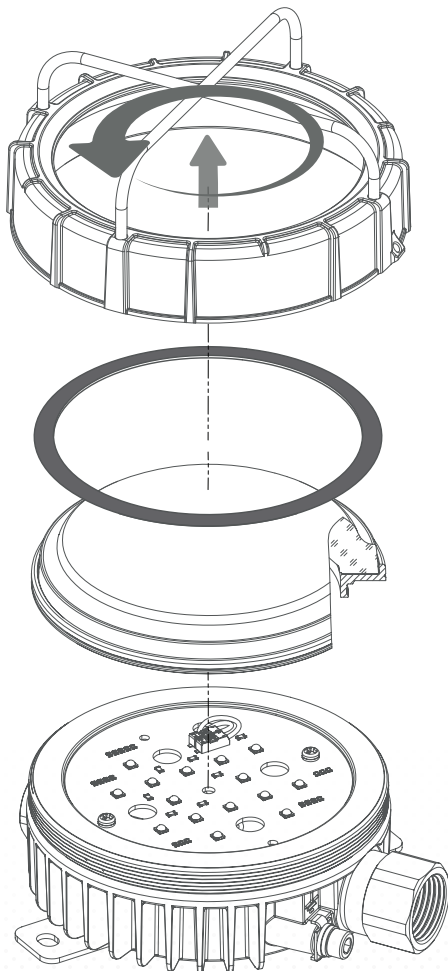
- for Plafond EX, this is the diffuser-holding ring with an embedded diffuser made of Borosilicate glass, a gasket, and a top housing with a mesh guard (see Fig. 2).

- for Plafond HL and Plafond IL, this is the diffuser-holding ring with an embedded diffuser made of polycarbonate lens and the top housing (see Fig. 3).
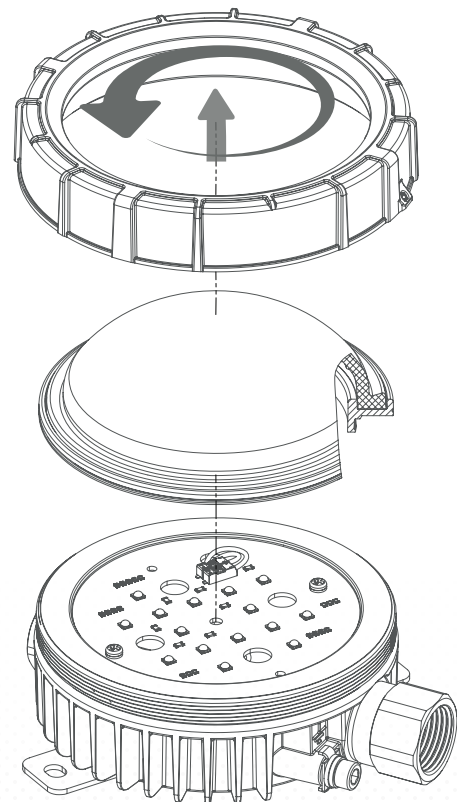
FIG. 2

FIG. 3

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2. Unscrew (2) two screws along with (2) two washers holding the LED board. Remove the LED board from the luminaire body, providing access to the driver (see Fig. 4).

3. If the Plafond™ fixtures come with pre-installed M20-to-NPT 3/4" or 1/2" (1) one adapter and (1) one plug to be used with end user's Class I Division 1 cable glands, please, follow corresponding cable gland installation manual that comes with those cable glands (see Page 5).
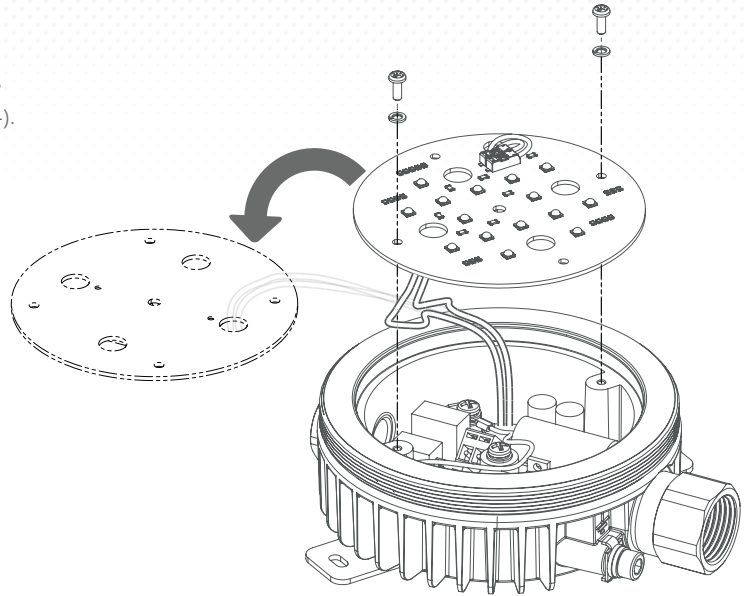
FIG. 4

FIG. 5

4. After installing the cable into the CID1 cable entry (see Fig. 5), connect the power and neutral wires to the SMD terminals (OPTION #1) or splicing connectors (OPTION #2) on the driver as per the designations. If transit connection is required, use the second SMD terminal (See Fig. 6). For RV 120-277 VAC power supplies connection, see Fig. 6 (OPTION #1) and Fig. 7 (OPTION #2). For LV 12-24 VDC power supplies connection, see Fig. 8.
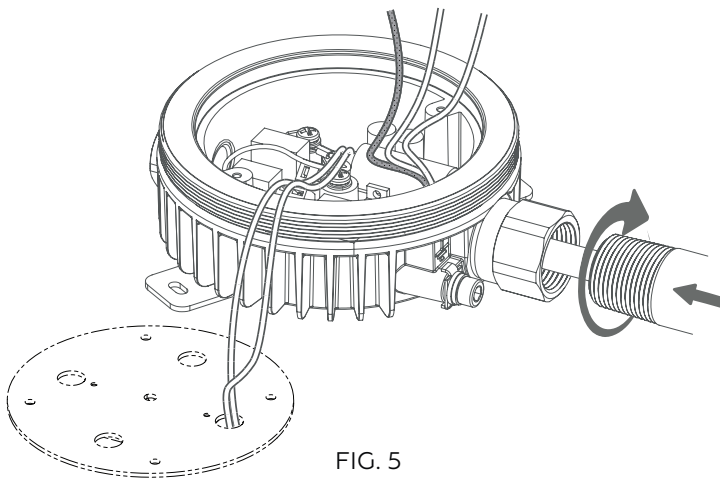
RV 120-277 VAC (OPTION #1)

L
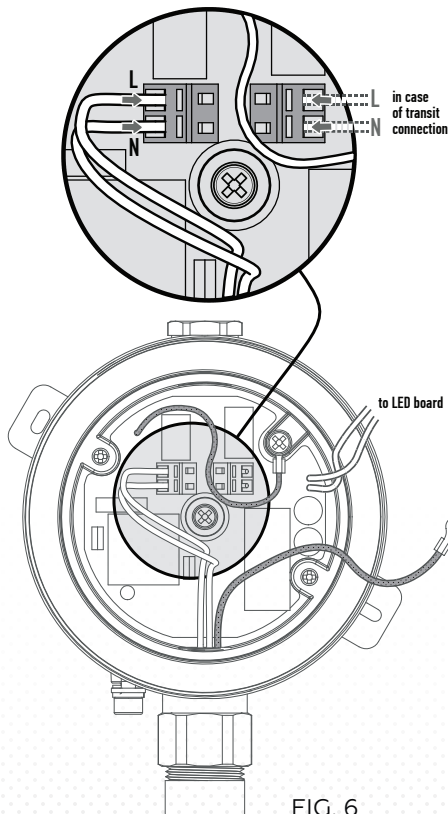N
L in case
N of transit
connection

to LED board

FIG. 6

RV 120-277 VAC (OPTION #2)

N L

to LED board

FIG. 7

LV 12, 24 VDC

to LED board

FIG. 8

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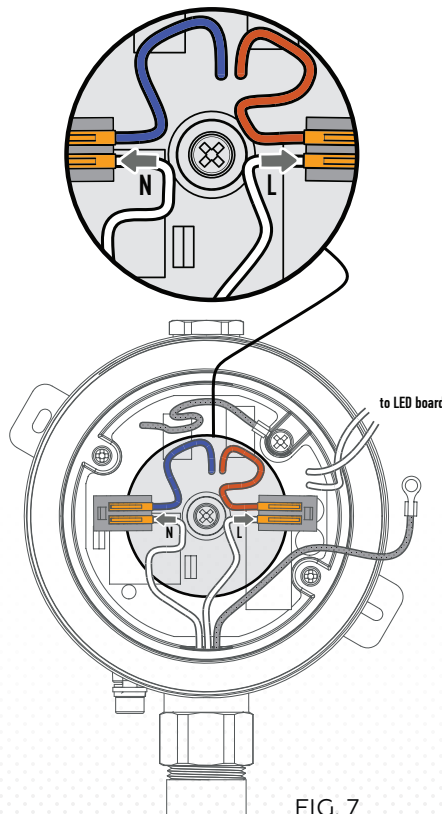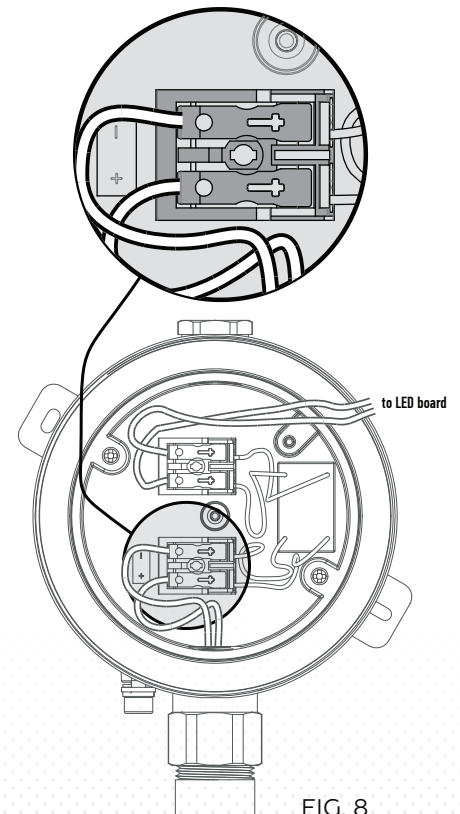
3

5. For RV 120-277 VAC power supplies (OPTION #1 and OPTION #2), connect internal ground wire to ground screw-in type connector marked GROUND (See Fig. 9).
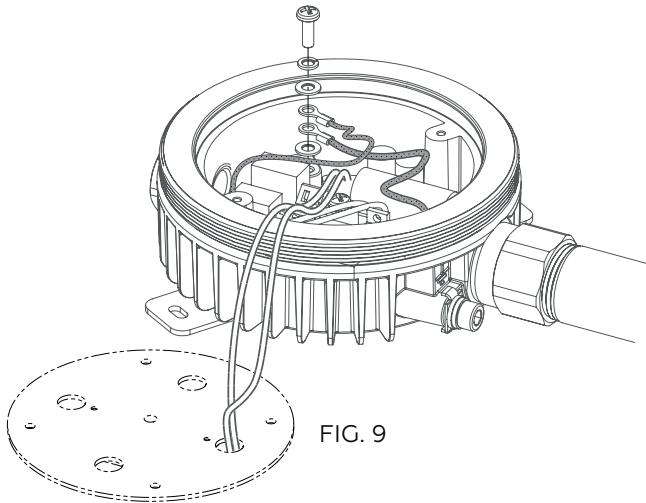

FIG. 9

6. For IP66 sealing
Important (!): An additional seal is required for IP66. Install supplied with the Plafond™ rubber seal into the groove located on the inside of the diffuser-holding ring as shown on the Fig 10.
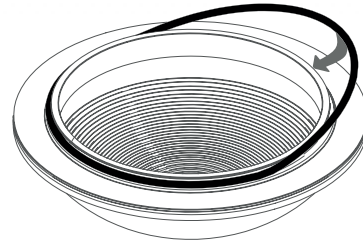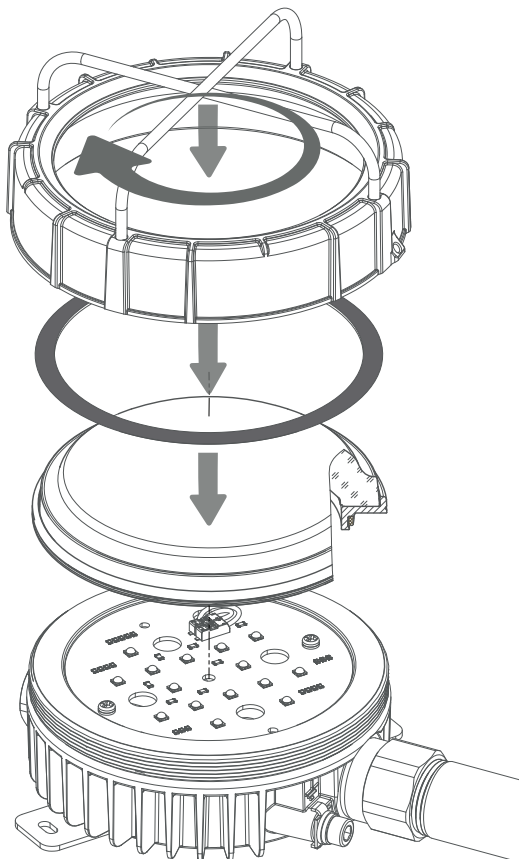

FIG. 10

FIG. 11

FIG. 12

FIG. 13

8. Assemble the fixture in reverse order: attach the LED board to the housing, install the lens-holding ring with the embedded diffuser, the gasket (for Plafond EX), and screw on the top housing. See Fig. 11 and Fig. 12.

9. Install and tighten set screw. See Fig. 13

10. The fixture is ready to be used.

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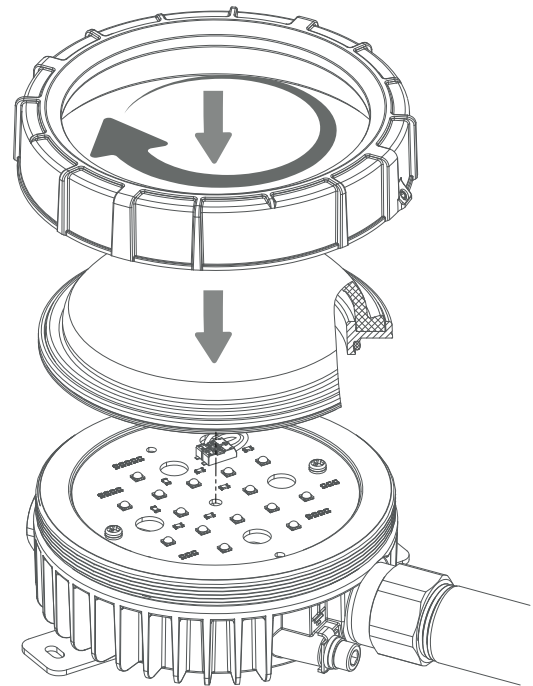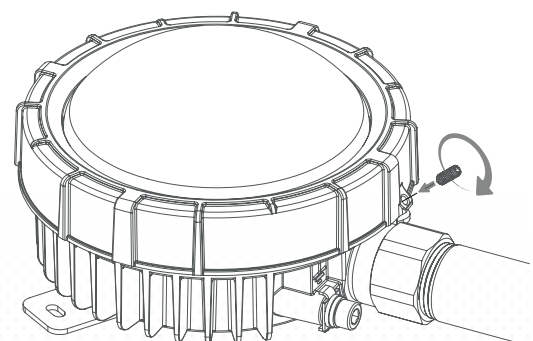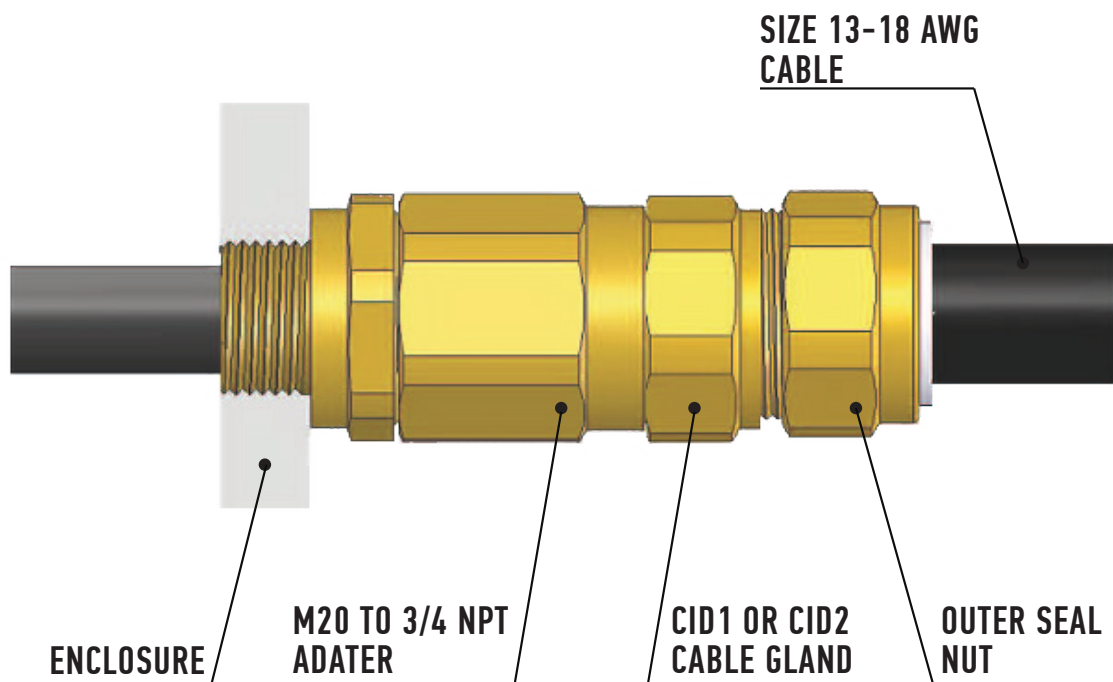
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CABLE INSTALLATION INTO THE CID1 OR CID2 CABLE GLAND

1. Untighten the outer seal nut

2. Prepare size range 13 - 18 AWG cable wires for connecting to the fixture terminals by stripping back few millimeters of each wire sheath to suite the terminal geometry. (NOTE! 13 AWG is the maximum wire diameter to be used with the device terminals)

3. Pass the size range 13-18 AWGcable through the cable gland inside the enclosure. (NOTE! If other size cables are required different CID1 or C1D2 cable gland/grip can be used with appropriate ADAPTER to CABLE GLAND IP66 sealing)

4. Connect the wires to the fixture terminals.

5. Tighten the outer seal nut. (NOTE! Make sure all the components – adapter, sealing nut, cable grips are well tightened)

SIZE 13-18 AWG CABLE

ENCLOSURE

M20 TO 3/4 NPT ADATER

CID1 OR CID2 CABLE GLAND

OUTER SEAL NUT

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