



Installation Overview

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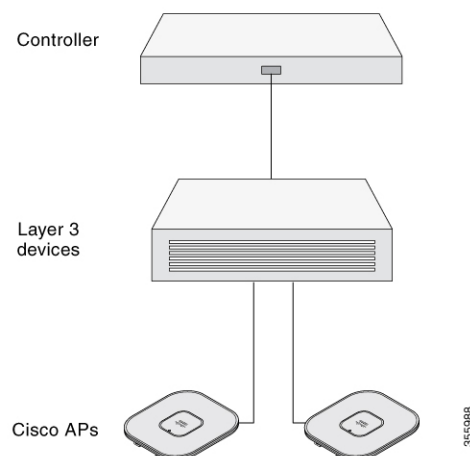
Performing a Preinstallation Configuration (Optional)

The following procedures describe the processes to ensure that your AP installation and initial operation go as expected.



Note Performing a preinstallation configuration is an optional procedure. If your network controller is properly configured, you can install your AP in its final location and connect it to the network from there.

The following illustration shows the preinstallation configuration setup:



Perform the following steps:

Before you begin

Ensure that the Cisco Controller Distribution System (DS) port is connected to the network. Use the procedure for CLI or GUI as described in the release appropriate [Cisco Catalyst 9800 Series Wireless Controller Software Configuration Guide](#).

- Enable Layer 3 connectivity between APs, Cisco Controller Management, and AP-Manager interface.
- Configure the switch to which your AP has to attach. See the [Cisco Wireless Controller Configuration Guide](#) for the release you are using, for additional information.
- Configure the Cisco Catalyst 9800 Series Wireless Controller as the primary so that new APs always join it.
- Ensure that the DHCP is enabled on the network. The AP must receive its IP address through DHCP.



Note An 802.11ax AP is assigned an IP address from the DHCP server only if a default router (gateway) is configured on the DHCP server (enabling the AP to receive its gateway IP address) and the gateway ARP is resolved.

- CAPWAP UDP ports must not be blocked in the network.
- The AP must be able to find the IP address of the controller. This can be accomplished using DHCP, DNS, or IP subnet broadcast. This guide describes the DHCP method to convey the controller IP address. For other methods, see the product documentation.



Note The AP requires a multi-gigabit Ethernet (5 Gbps) link to prevent the Ethernet port from becoming a bottleneck for traffic.

Step 1 Power the AP using supported power source.

- As the AP attempts to connect to the controller, the LED cycles through a green, red, and off sequence, which can take up to five minutes.

Note If the AP remains in this mode for more than five minutes, the AP cannot find the primary Cisco Catalyst 9800 Series Wireless Controller. Check the connection between the AP and the Cisco Catalyst 9800 Series Wireless Controller and be sure that they are on the same subnet.

- If the AP shuts down, check the power source.
- After the AP finds the Cisco Catalyst 9800 Series Wireless Controller, it attempts to download the new operating system code if the AP code version differs from the Cisco Catalyst 9800 Series Wireless Controller code version. While this is happening, the Status LED blinks blue.

If the operating system download is successful, the AP reboots.

Step 2 (Optional) Configure the AP. Use the controller CLI, GUI, or Cisco DNA Center to customize the access point-specific 802.11ax network settings.

- Step 3** If the preinstallation configuration is successful, the Status LED is green, indicating normal operation. Disconnect the AP and mount it at the location at which you intend to deploy it on the wireless network.
- Step 4** If your AP does not indicate normal operation, turn it off and repeat the preinstallation configuration.
- Note** When you are installing a Layer 3 access point on a subnet that is different from the Cisco Catalyst 9800 Series Wireless Controller, ensure the following setup is configured:
- A DHCP server is reachable from the subnet on which you plan to install the AP.
 - The subnet has a route back to the controller.
 - This route has destination UDP ports 5246 and 5247 open for CAPWAP communications.
 - The route back to the primary, secondary, and tertiary controller allows IP packet fragments.
 - If address translation is used, the access point and the controller have a static 1-to-1 NAT to an outside address. Port Address Translation is not supported.

Preinstallation Checks and Installation Guidelines

Before you mount and deploy your access point, we recommend that you perform a site survey (or use the Site Planning tool) to determine the best location to install your access point.

You should have the following information about your wireless network available:

- Access point locations
- Access point mounting options: To a vertical or horizontal wall or a pole
- Access point power options: Use either of the following options to power the AP:
 - DC power input
 - Cisco-approved power injector
 - 802.3at (PoE+), 802.3bt, and Cisco Universal PoE (Cisco UPOE)
- Operating temperature: -40° to +131°F (-40° to +55°C) with solar load and still air.
Extended operating temperature (DC powered): -58° to +149°F (-50° to +65°C) without solar loading, still air, and cold start limited to -40°C
- Console access using the console port

We recommend that you use a console cable that is one meter or less in length.



Note The AP may face issues while booting if you use an unterminated console cable (not plugged into any device or terminal) or a console cable that is more than one meter in length.

We recommend that you make a site map showing access point locations so that you can record the device MAC addresses from each location and return them to the person who is planning or managing your wireless network.



Note Professional installation is required.

Mounting the Access Point

This section provides instructions to mount the AP.



Note Personnel mounting the AP must have knowledge of the wireless AP, bridging techniques, and grounding methods.

Mounting Hardware

The IW9167I access point has built-in mounting flanges. You can also use the following mounting hardware:

- DIN rail mounting bracket
- Pole mounting bracket

Required mounting hardware depends on the mounting location:

- For ceilings or hard ceilings or walls, directly mount the access point using the built-in mounting flanges.

The mounting flanges are on the sides of the access point that are without ports.

- For electrical cabinets or network boxes, directly mount the access point using the mounting flanges or use the DIN rail mounting bracket.
- For pole mounting, use the pole mounting bracket.

Mounting Bracket Part Numbers



Note These brackets do not ship with the access point, but you can order them separately.

Table 1: Mounting Bracket Part Numbers

Mounting Bracket	Cisco Part Number
DIN Rail Mounting Bracket	AIR-ACCDMK3700=
Pole Mounting Bracket (for 2"–3.2" diameter pole)	AIR-ACCPMK3700=

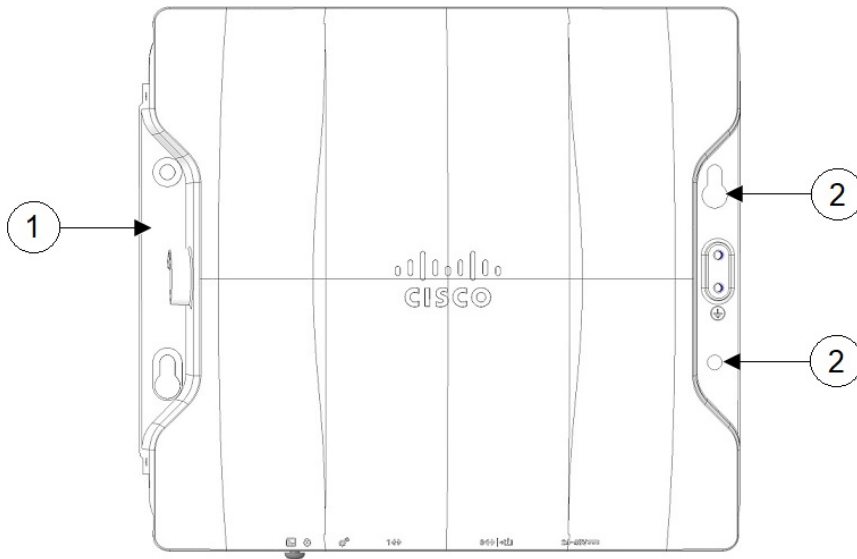
Mounting Bracket	Cisco Part Number
Pole Mounting Bracket (for 2”–16” diameter pole)	AIR-ACCPMK3700-2=
Horizontal Pole Mounting Bracket	IW-ACC-9167I-BRK=

Using the Integrated Flange Mounts

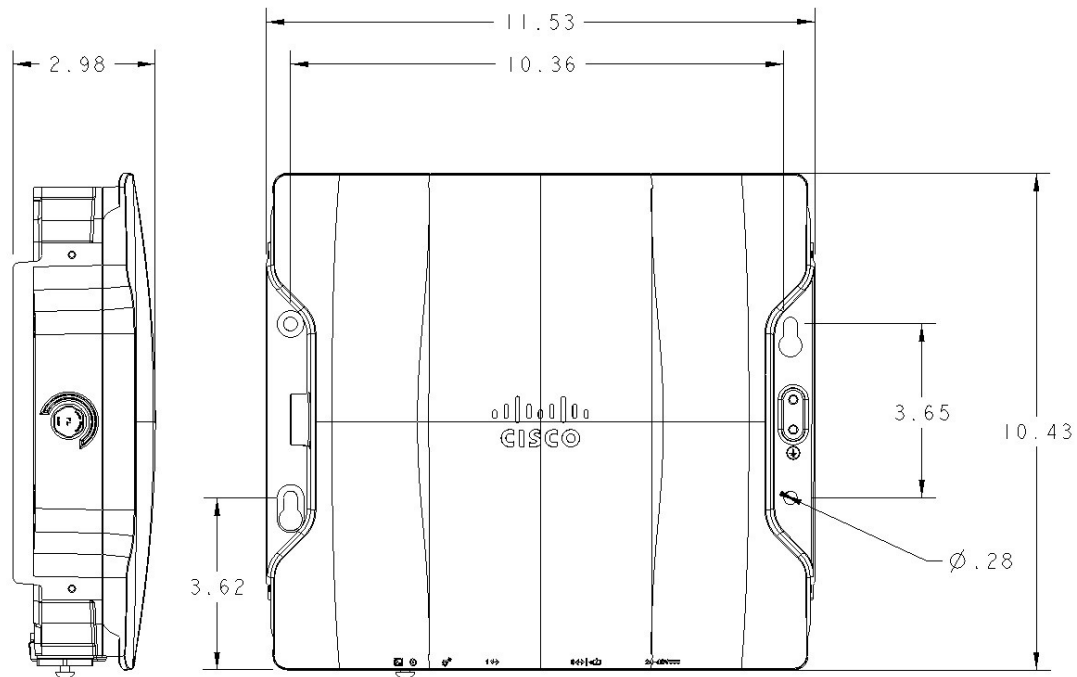
Direct mounting using the integrated flange mounts is typically for confined spaces or deployments that experience severe shock and vibration.

To mount the access point using the integrated flange mounts:

- Step 1** Choose the access point location that can safely support the weight of the access point.
- Step 2** Use the access point mounting holes as a template, and mark them at the mounting location.



1	Main mounting flange	2	Mounting holes
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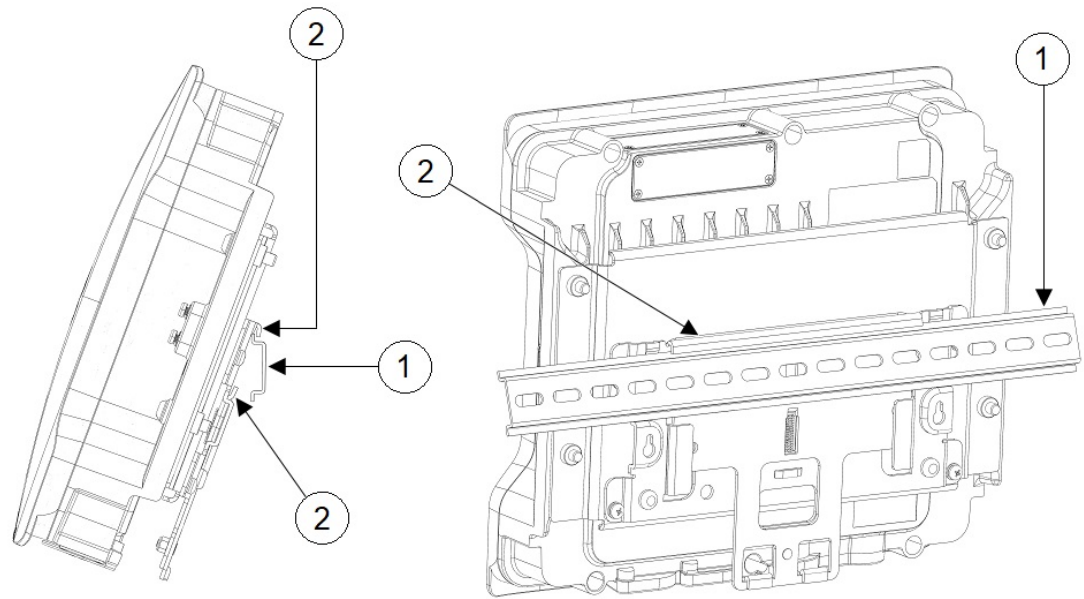
- Step 3** Drill holes on the mounting surface for plastic wall anchors to suit 1/4-20 or M6 bolts, and add the appropriate anchors.
- Step 4** Align the access point mounting holes with the drilled holes.
- Step 5** Insert a mounting screw in each of the four mounting holes and tighten.
- Step 6** You can use the keyholes for “hands-free” installation.

Note Ensure that the access point is firmly secured.

Using the DIN Rail Mounting Bracket

You can use DIN rail mounting in network or electrical closets or cabinets, or in wiring rooms that have low-levels of shock and vibration. The following figure shows the DIN rail and DIN rail mounting assembly.

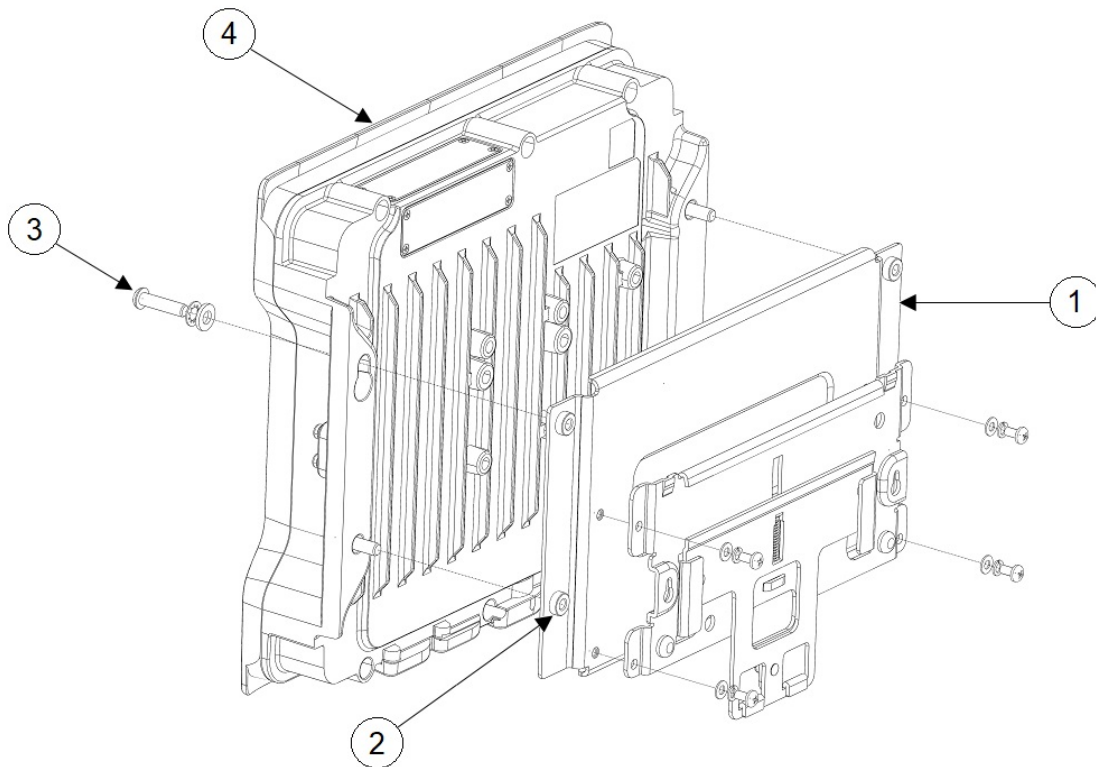
Figure 1: DIN Rail Mounting Assembly



1	35 mm DIN rail (not supplied by Cisco)	2	DIN rail mounting bracket clip
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To DIN rail mount the access point:

Step 1 Assemble the access point and DIN rail mounting bracket using the M6 hardware supplied as shown in the following figure.



1	Steel DIN mounting bracket	3	M6 screw (Torque 6–7 ft-lbs)
2	M6 insert	4	Access Point

Step 2 Position the access point assembly directly in front of the DIN rail.

Step 3 Insert the DIN rail mounting bracket under the spring-loaded upper mounting clips.



Note Ensure that the DIN rail seats into the anti-slip clips.

Step 4 Pull down the retention handles until the lower lip of the DIN rail mounting bracket seats in the lower mounting bracket clip.

Step 5 Release the retention handles.

Pole Mounting the AP with Horizontal Bracket

You can use the horizontal mounting bracket to mount the AP horizontally to a pole.

Step 1 Attach the bracket to the pole using the band clamps as shown in the following figure.

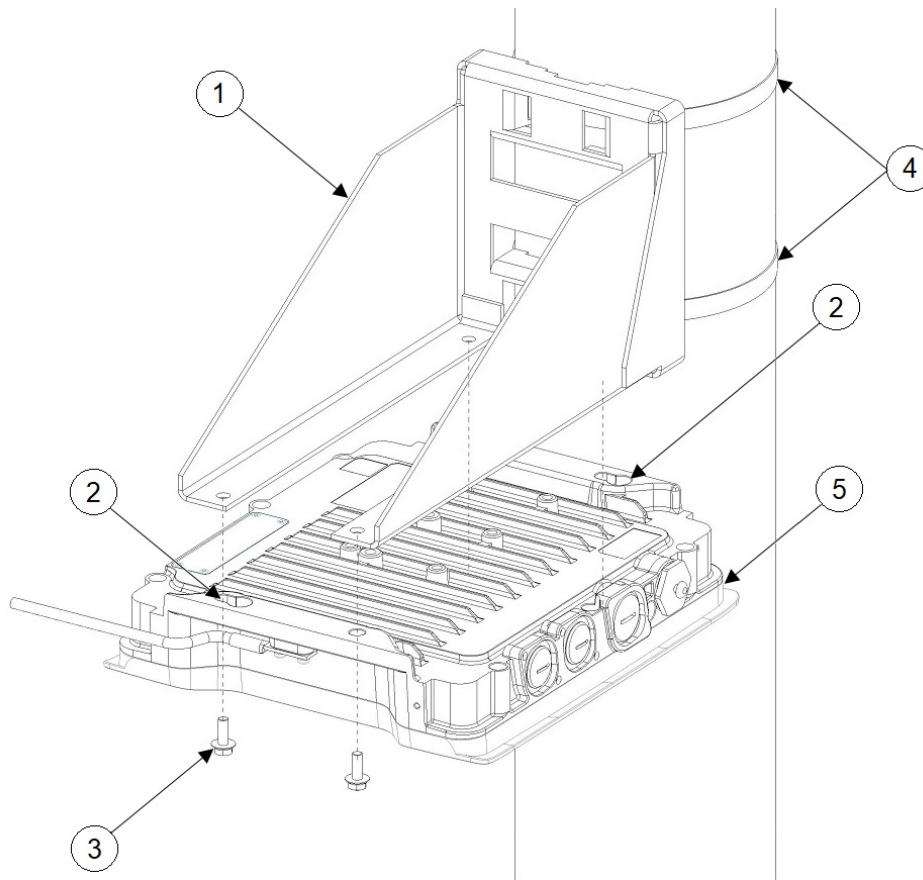
Step 2 Attach the AP to the bracket, using four M6 bolts. Torque the bolts to 53-70 in-lbs.

Step 3 Alternate AP attach:

- a) After the bracket is mounted to the pole, partially insert two of the M6 bolts into the bracket in the locations that align with the keyhole slots on the IW9167I access point.
- b) Align the IW9167I keyhole slots with the partially installed M6 bolts, insert and shift the IW9167I so that the bolts are going through the narrow part of the keyhole.

Note Never leave the AP unit unattended in this state. The AP must always be supported.

- c) Install the remaining two bolts and tighten all four bolts to 53-70 in-lbs.



1	Horizontal mounting bracket	2	Mounting keyholes
3	M6 Bolt (4x)	4	Band clamps

5	IW9167I AP		
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Using the Pole Mounting Bracket

You can choose one of the following pole mounting brackets in the following table, according to the size of the pole that you are going to mount your access point on.

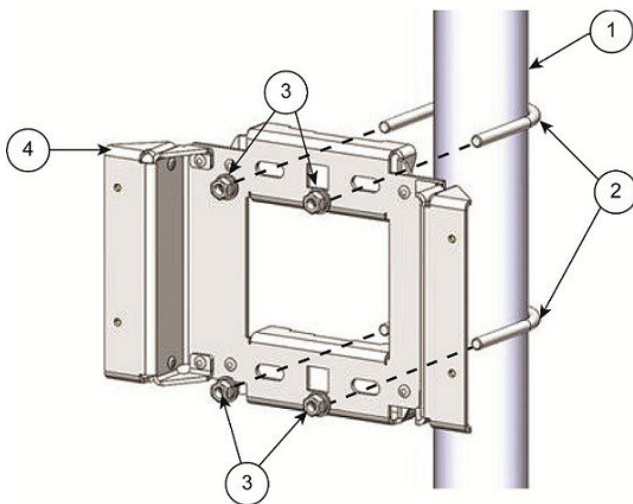
Table 2: Pole Mounting Brackets

Mounting Bracket	Cisco Part Number	Applicable Pole Diameter
Pole Mounting Bracket	AIR-ACCPMK3700=	2–3.2 inches
Pole Mounting Bracket 2	AIR-ACCPMK3700-2=	2–16 inches

Using the Mounting Bracket AIR-ACCPMK3700=

To mount the access point on a pole using the mounting bracket AIR-ACCPMK3700=:

Step 1 Use the supplied U bolts, washers, and nuts to attach the mounting bracket to the pole.

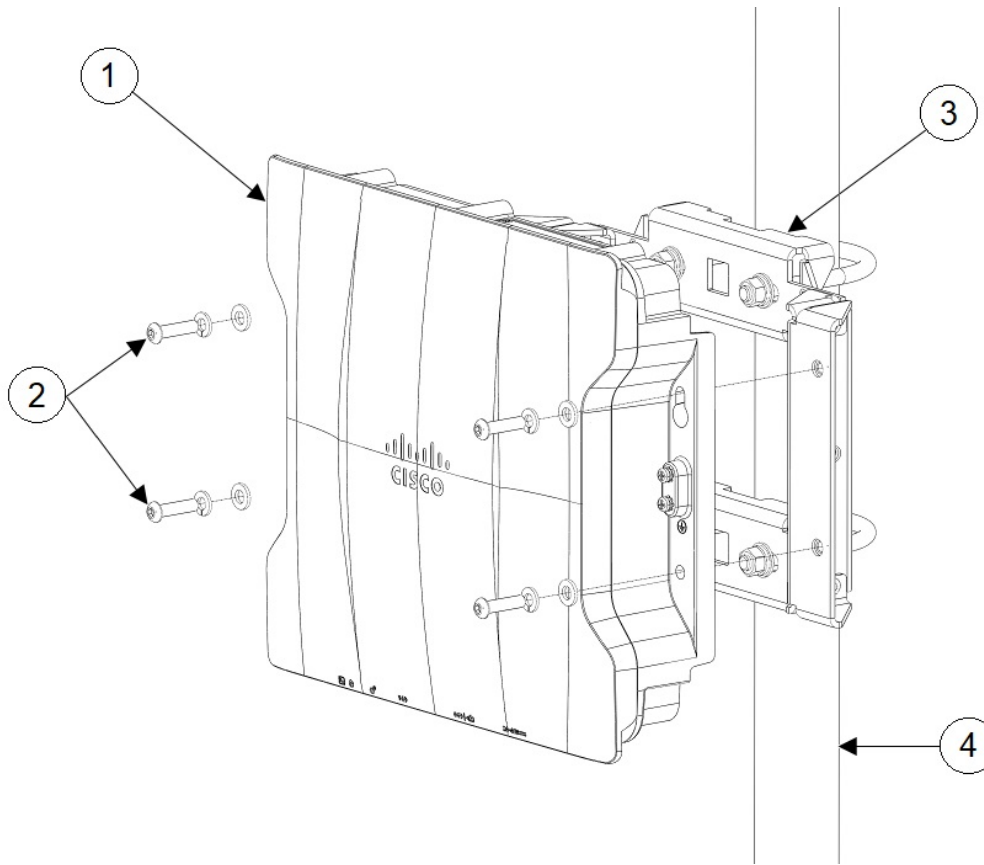


1	2"– 3.2" (5–8 cm) diameter pole	3	M8 x 1.25 nuts and washers
2	M8 x 1.25 U-bolt	4	Pole mounting bracket

Step 2 Use the included bolts, washers, and nuts to attach the access point to the mounting plate.

Note Ensure that you symmetrically tighten the nuts on the U-bolts. If you over tighten one side, the U-bolt will skew.

Step 3 Torque the nuts to 6 to 7 foot-pounds.



1	Access point	3	Pole mounting bracket
2	M6 bolts and washers	4	2"– 3.2" (5–8 cm) diameter pole

Note Ensure that the access point is firmly secured to the mounting bracket.

You can use the keyholes for “hands-free” installation. Ensure that you torque the nuts to 6 to 7 ft-lbs.

Caution Never leave the access point unattended if the mounting hardware is not torqued to full value.

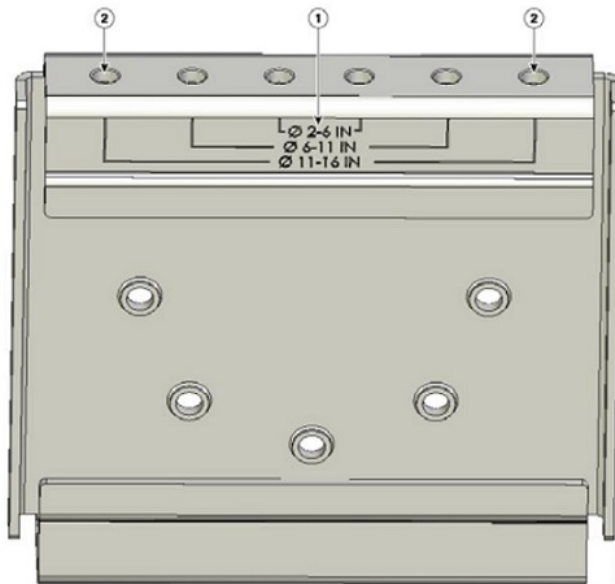
Using the Mounting Bracket AIR-ACCPMK3700-2=

The mounting bracket AIR-ACCPMK3700-2= supports poles from 2 to 16 inches in diameter. To mount the access point on a pole using this mounting bracket:

Step 1

Assemble two strap brackets on the pole clamp bracket that are positioned for the pole diameter you are using to mount the access point. The following image illustrates the pole diameter indicators and bolt holes on the pole clamp bracket.

Figure 2: Pole Clamp Bracket Adjustment Hole Locations

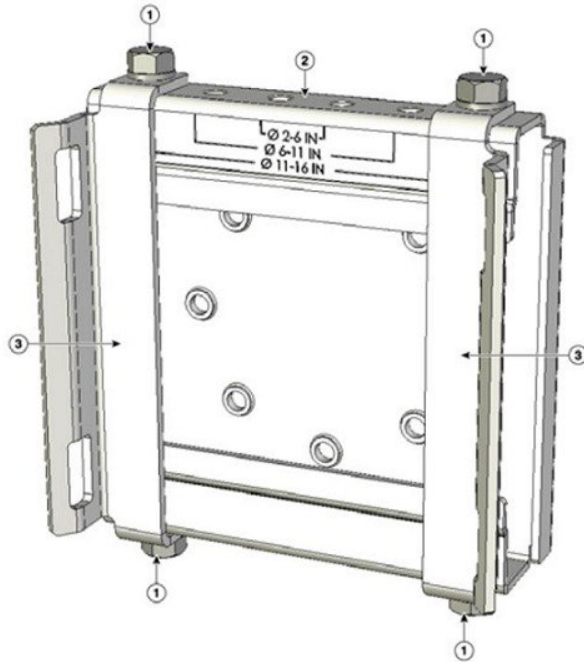


1	Pole size indicators <ul style="list-style-type: none"> • 2 to 6 in. • 6 to 11 in. • 11 to 16 in.
2	Bolt holes for pole diameters (11 to 16 inches indicated)

Step 2

Position the strap brackets on the pole clamp bracket for the pole diameter you are using and secure each strap bracket with two M8 x16 bolts (with lock washers), as the following image shows. Tighten the bolts to 13 to 15 ft lbs (17.6 to 20.3 N-m).

Figure 3: Assembled Pole Clamp Bracket and Strap Brackets



1	M8 x1.25x16 bolts (with lock washers)	3	Strap bracket (shown positioned for 11 to 16 inch diameter pole)
2	Pole clamp bracket		

- Step 3** Screw the M8 nut onto the pole clamp bracket support bolt, and tighten just enough to prevent the bolt from falling off.
- Step 4** To mount your access point on a vertical pole, you need to install two metal bands around the pole to support the access point. This process requires extra tools and material not provided in the pole mount kit (see the following table for details).

Table 3: Material Needed to Mount Access Point on a Pole

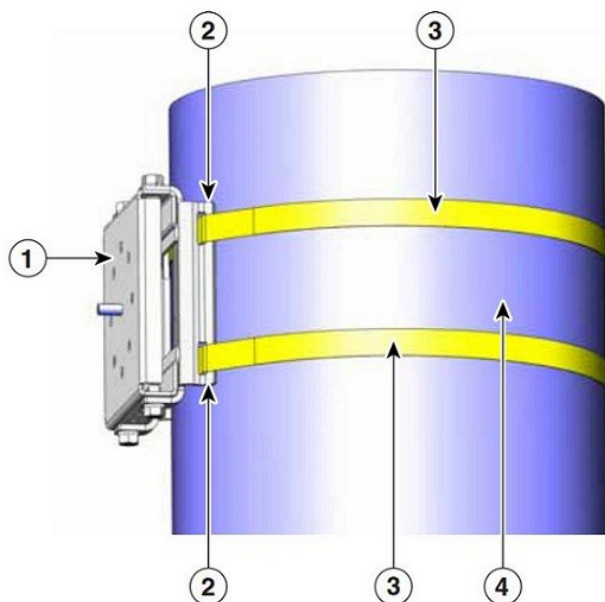
Mounting Method	Materials Required	In Kit
Vertical pole	• Two 0.75-in (1.9 cm) stainless steel bands	Yes
	• Banding strap tool (BAND IT) (Cisco AIR-BAND-INST-TL=)	No
	• Ground lug (provided with access point)	Yes
	• Crimping tool for ground lug, Panduit CT-720 with CD-720-1 die (http://onlinecatalog.panduit.com)	No
	• #6 AWG ground wire	No

- Step 5** Select a mounting location on the pole to mount the access point. You can attach the access point to any pole from 2 to 16 inch (5.1 to 40.6 cm) in diameter.

Step 6 For poles larger than 3.5 inch (8.9 cm), mount the pole clamp bracket assembly to a pole (see the following image) using two metal straps. Following the instructions provided with the banding strap tool (BAND IT) (AIR-BAND-INST-TL=), loop each metal strap twice through the slots on the strap bracket.

Caution Do not place the metal straps in the large open area between the pole clamp bracket and the strap brackets, because this does not properly secure the access point.

Figure 4: Clamp Bracket Assembly Mounted on Poles Larger than 3.5 inch (8.9 cm)



1	Pole clamp bracket	3	Metal mounting strap
2	Strap slot in strap bracket	4	Pole

Step 7 For pole diameters of 3.5 inch (8.9 cm) or less, mount the pole clamp bracket assembly to a pole using two metal straps looped through the space between the pole clamp bracket and the strap brackets to provide maximum holding strength for extreme environments. Following the instructions provided with the banding strap tool (BAND IT) (AIR-BAND-INST-TL=), loop each metal strap twice.

Caution Do not place the metal straps in the large open area between the pole clamp bracket and the strap brackets because this does not properly secure the access point.

Step 8 Position the pole clamp bracket on the pole as needed before tightening the metal bands.

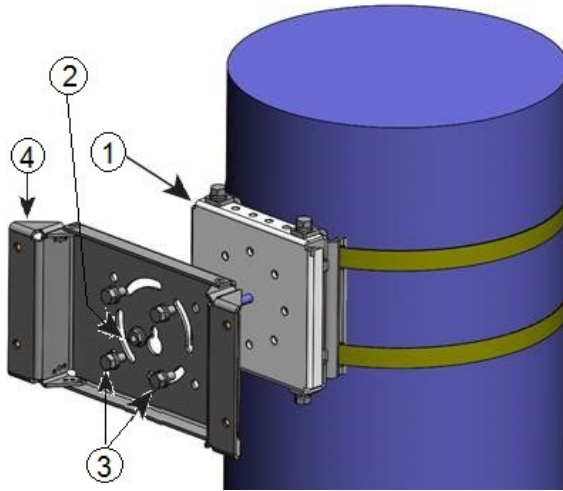
Note When the metal bands are tightened to the full tension, the pole clamp bracket cannot be adjusted unless the metal bands are cut or disassembled.

Step 9 Tighten the metal bands using the banding strap tool (BAND IT) (Cisco AIR-BAND-INST-TL=) by following the operating instructions in the box with the tool. Ensure that the metal bands are as tight as possible.

Step 10 Place the mounting bracket onto the pole clamp bracket support bolt.

Step 11 Install four M8 x16 bolts (with flat and lock washers) into the bolt holes.

Figure 5: Mounting Bracket and Pole Clamp Bracket Assembly



1	Pole clamp bracket assembly	3	Bolt holes
2	Access point support bolt	4	Mounting bracket

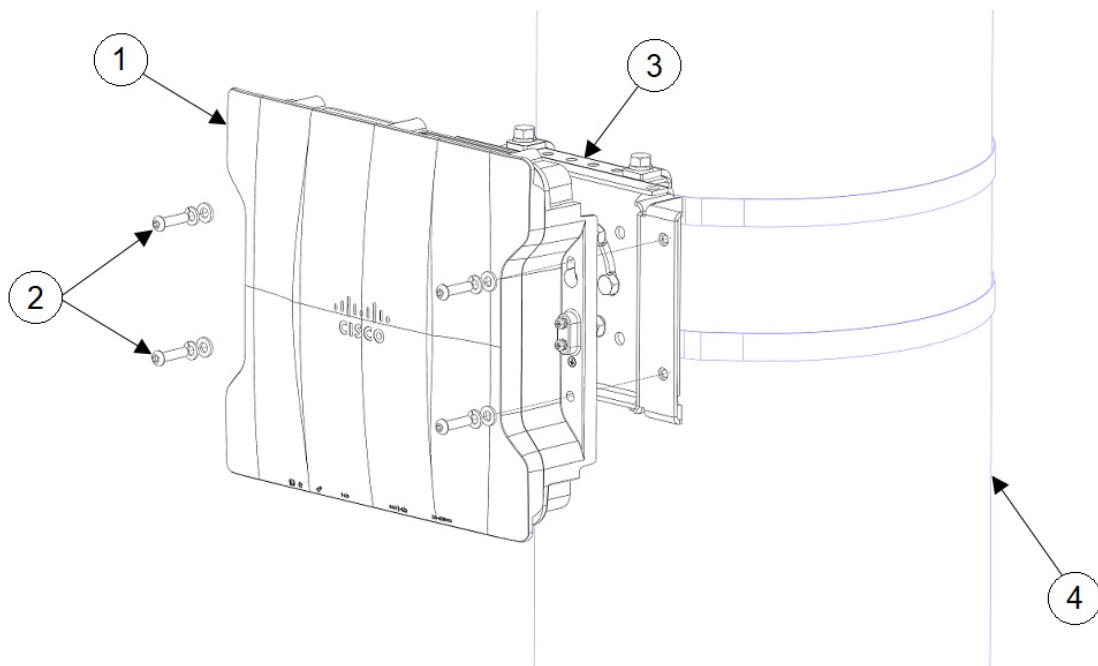
Step 12 Hand-tighten the bolts and the nut (do not overtighten).

Step 13 Adjust the top edge of the mounting bracket until it is horizontal and tighten the bolts and the flange nut to 13 to 15 ft-lbs (17.6 to 20.3 N-m).

Step 14 Use the included bolts, washers, and nuts to attach the access point to the mounting plate.

Step 15 Torque the nuts to 6 to 7 ft-lbs.

Figure 6: Access Point Installed in the Mounting Bracket



1	Access point	3	Pole mounting bracket
2	M6 bolts and washers	4	Pole

Note Ensure that the access point is firmly secured to the mounting bracket.

Caution Never leave the access point unattended if the mounting hardware is not torqued to full value.

Attaching a Power Adapter

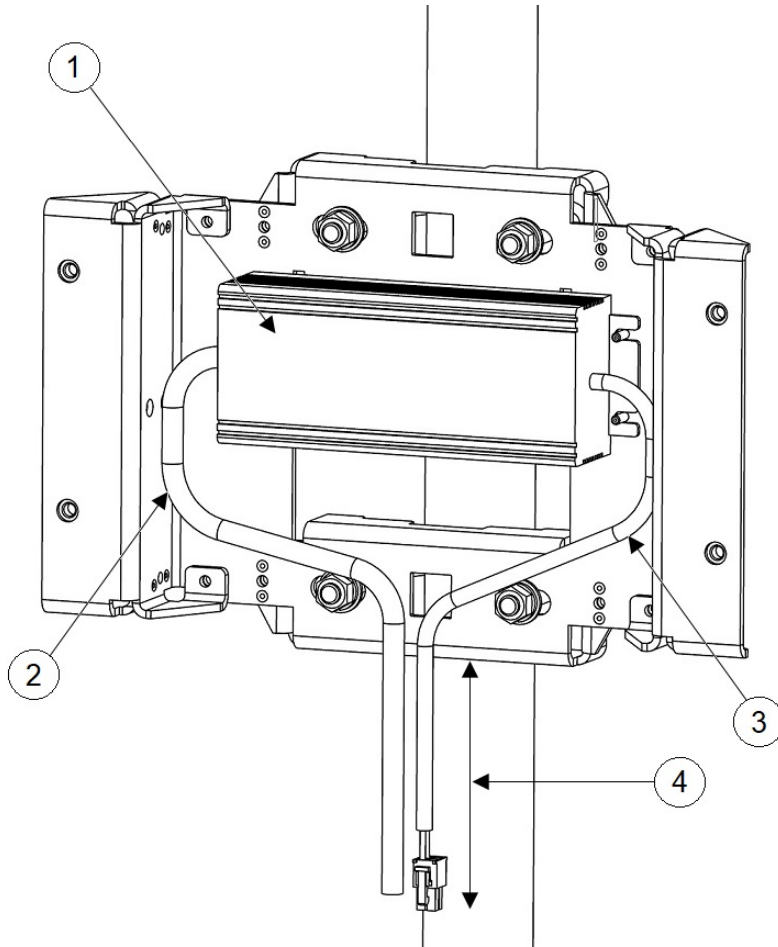
If you want to attach a power adapter (IW-PWRADPT-MFIT4P=) to the access point on a pole using the mounting bracket AIR-ACCPMK3700= or AIR-ACCPMK3700-2=, use the procedures in the following sections.

Attaching a Power Adapter Using the Mounting Bracket AIR-ACCPMK3700=

To attach a power adapter (IW-PWRADPT-MFIT4P=) to the access point on a pole using the mounting bracket AIR-ACCPMK3700=, use the following procedures:

-
- Step 1** Ensure you have the mounting bracket set up as described in Step 1 of [Using the Mounting Bracket AIR-ACCPMK3700-2=](#), on page 11.
- Step 2** Attach the power supply using 4x 6-32 screws and torque the screws to 8.3-11 in-lbs, as shown in the following figure.

Figure 7: Power Adapter Installed Using Mounting Bracket AIR-ACCPMK3700-2=



1	Power Adapter	3	DC Output Cable
2	Tie Wraps	4	10 inches Minimum Length

- Step 3** Ensure that the excess cable is bundled and tie wrapped to the mounting bracket. Route the cable as shown in the figure in Step 2.
- Step 4** Ensure that there is 10 inches minimum length from the bottom edge of the power supply to the end of the connector as shown in the figure in Step 2.
- Step 5** Attach the access point to the mounting plate as described in Step 2 and Step 3 of [Using the Mounting Bracket AIR-ACCPMK3700-2=](#), on page 11.

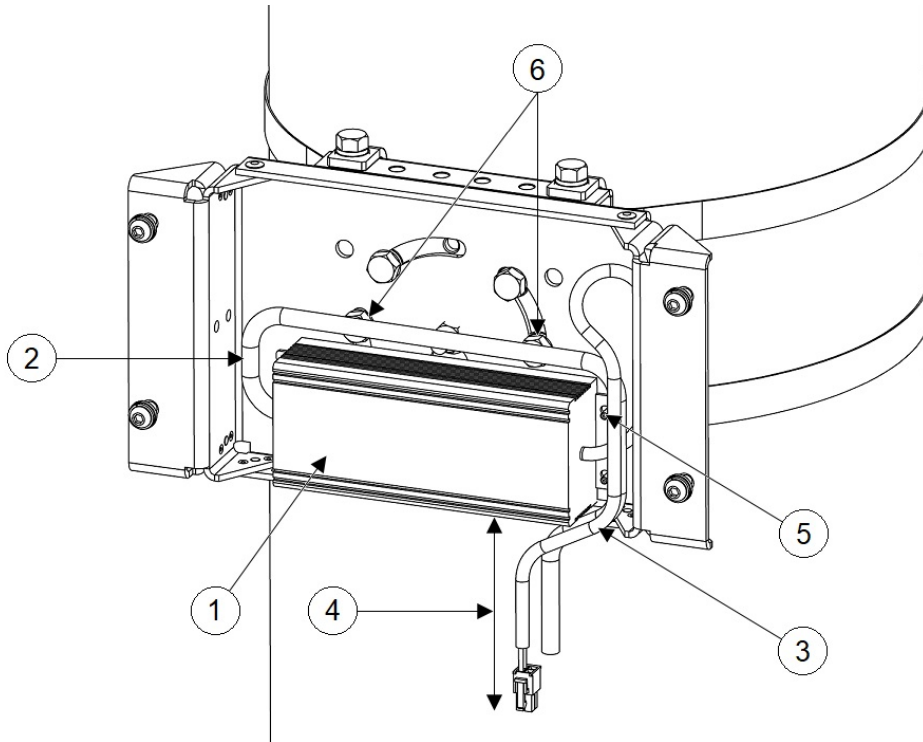
Attaching a Power Adapter Using the Mounting Bracket AIR-ACCPMK3700-2=

To attach a power adapter (IW-PWRADPT-MFIT4P=) to the access point on a pole using the mounting bracket AIR-ACCPMK3700-2=, use the following procedures:

Step 1 Ensure you have the mounting bracket set up as described in Step 1 through Step 13 of [Using the Mounting Bracket AIR-ACCPMK3700-2=](#), on page 11. But for step 11, the 2 lower bolts need to be repositioned to the locations indicated as No. 6 in the following figure.

Step 2 Attach the power supply using 4x 6-32 screws and torque the screws to 8.3-11 in-lbs, as shown in the following figure.

Figure 8: Power Adapter Installed Using Mounting Bracket AIR-ACCPMK3700-2=



1	Power Adapter	4	10 inches Minimum Length
2	Tie Wraps	5	4x 6-32 Screws
3	DC Output Cable	6	Reposition the bolts

Step 3 Ensure that the excess cable is bundled and tie wrapped to the mounting bracket. Route the cable as shown in the figure in Step 2.

Step 4 Ensure that there is 10 inches minimum length from the bottom edge of the power supply to the end of the connector as shown in the figure in Step 2.

Step 5 Attach the access point to the mounting plate as described in step 14 and step 15 of [Using the Mounting Bracket AIR-ACCPMK3700-2=](#), on page 11.

Grounding the Access Point

In all installations, after mounting the access point, you must properly ground the unit before connecting power cables.



Warning This equipment must be grounded. Never defeat the ground conductor or operate the equipment in the absence of a suitably installed ground conductor. Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available. Statement 1024



Warning Installation of the equipment must comply with local and national electrical codes. Statement 1074

The access point is shipped with a grounding kit.

Figure 9: Access Point Grounding Kit Contents



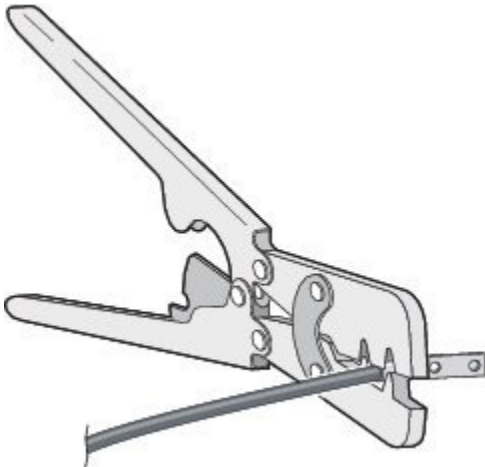
1	Grounding lug	2	Screws x 2, M4 x 6mm
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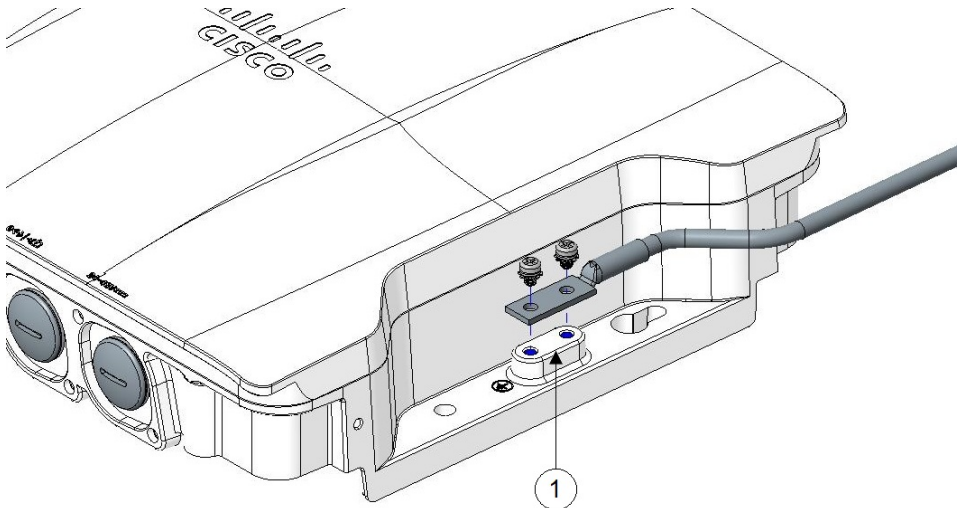
Note The grounding kit also includes the oxide inhibitor, which is contained in a tube.

To ground the access point:

Step 1 Use a crimping tool to crimp a 6-AWG ground wire (not included in the grounding kit) to the ground lug.



- Step 2** Connect the supplied ground lug to the access point ground connection point using the supplied screws. Apply supplied oxide inhibitor between the ground lug and the access point ground connection.



1	AP ground connection point
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- Step 3** Tighten the screws to 20-25 inch-lbs of torque.
- Step 4** If necessary, strip the other end of the ground wire and connect it to a reliable earth ground such as a grounding rod or appropriate ground point on a grounded pole. Length of the ground cable should not exceed 1 meter, and 0.5 meter is preferred. Use supplied oxide inhibitor on the grounded interface.

Powering the Access Point

The AP supports these power sources:

- DC power – 24–48 VDC

- Power-over-Ethernet (PoE)

The AP can be powered via the PoE input from an inline power injector or a suitably powered switch port. Depending on the configuration and regulatory domain, the required power for full operation is 802.3bt or UPOE.

For more information, see [Power Sources](#).

Power Feature Matrix

The following table provides the AP power feature matrix.

Table 4: Cisco Catalyst IW9167I Heavy Duty Access Point Power Feature Matrix

Power Input	2.4 GHz Radio	dBm Per Path	5 GHz Radio	dBm Per Path	6 GHz Radio	dBm Per Path	Aux Radio	GNSS	mGig Eth	SFP
24-48V	4x4	24	4x4	24	4x4	24	Yes	Yes	max 5G	Yes
802.3bt/UPOE	4x4	24	4x4	24	4x4	17	Yes	Yes	max 5G	Yes
802.3at	2x2	23	2x2	23	2x2	17	Yes	Yes	max 1G	Yes/1G

Connecting a Power Injector

The AP supports the following power injectors:

Table 5: Supporting Power Injectors

Power Source	Description
AIR-PWRINJ-60RGD1=	60W rated outdoor power injector, with North America AC plug
AIR-PWRINJ-60RGD2=	60W rated outdoor power injector, global version without AC plug
IW-PWRINJ-60RGDMG=	60W rated outdoor power injector, 5GE

The power injector provides DC voltage to the AP over the Ethernet cable and supports a total end-to-end Ethernet cable length of 100 m (328 ft) from the switch to the AP.

When an optional power injector powers your AP, follow these steps to complete the installation:

Step 1 Before applying PoE to the AP, ensure that the AP is grounded (see [Grounding the Access Point, on page 19](#)).

Step 2 Connect a CAT5e or better Ethernet cable from your wired LAN network to the power injector.

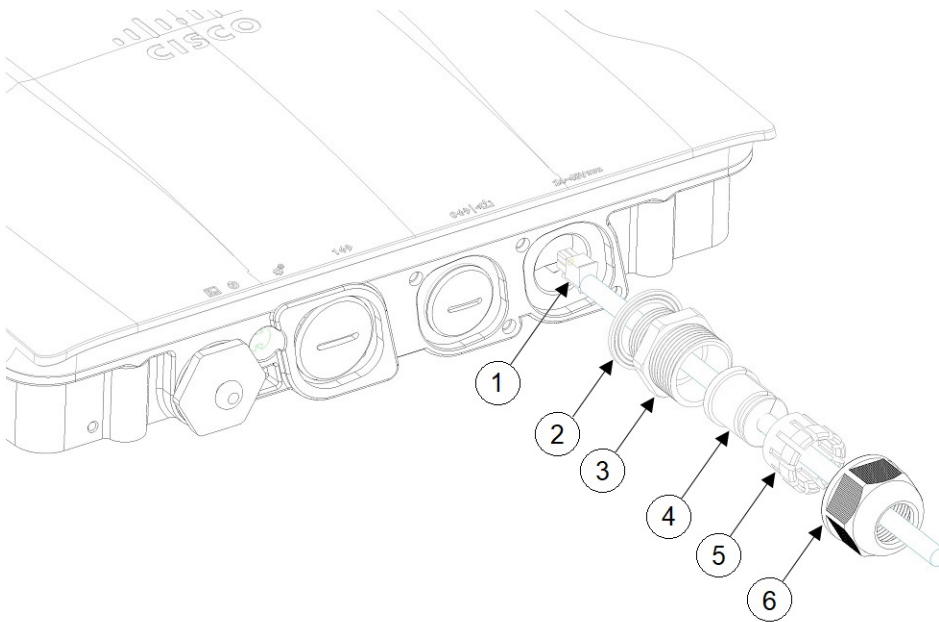
Note The installer is responsible for ensuring that powering the AP from this type of power injector is allowed by local and/or national safety and telecommunications equipment standards.

- Step 3** Connect a shielded outdoor-rated Ethernet (CAT5e or better) cable between the power injector and the AP's PoE-in connector.
- Step 4** Connect the Ethernet cable to the AP PoE-In port.

Connecting to the DC Power Port Using Cable Gland

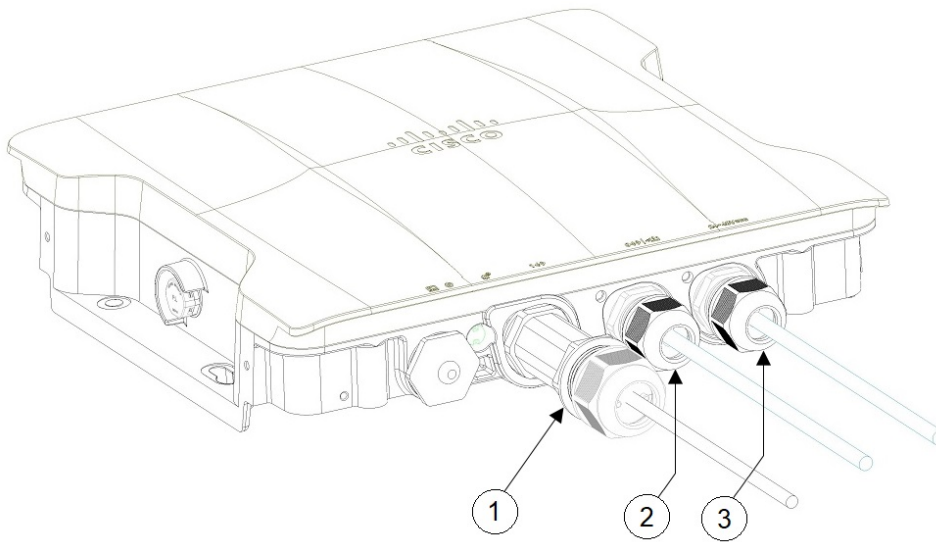
Follow these steps to connect to the DC power port using cable gland:

- Step 1** Disassemble PG13 cable gland and slide parts over DC cable in the order shown in the following figure:



1	DC cable	4	Grommet
2	Gasket	5	Ferrule
3	PG13 body	6	Clamp nut

- Step 2** Plug 4P connector cable into the DC connector in the chassis.
- Step 3** Thread the PG13 body (with gasket) into the chassis.
- Step 4** Insert the grommet into the ferrule, and press it into the PG13 body.
- Step 5** Tighten the clamp nut onto the PG13 body until the grommet compresses onto the DC cable.



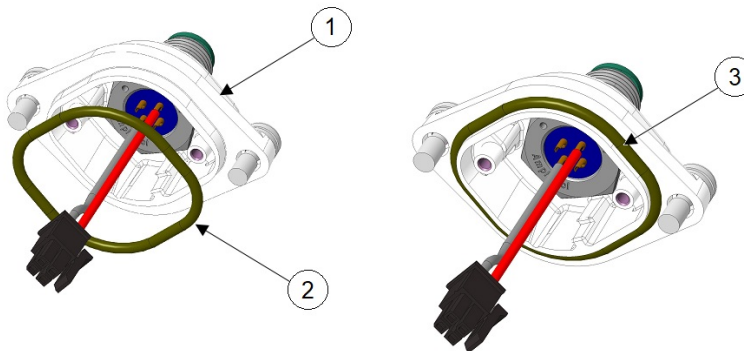
1	SFP port connected using cable gland	3	DC power port connected using cable gland
2	RJ-45 port connected using cable gland		

Connecting DC Power Port Using M12 Adapter

Before you begin

O-rings are shipped separately from the M12 adapter. You need to place the o-ring on the adapter before installing the M12 adapter to the chassis.

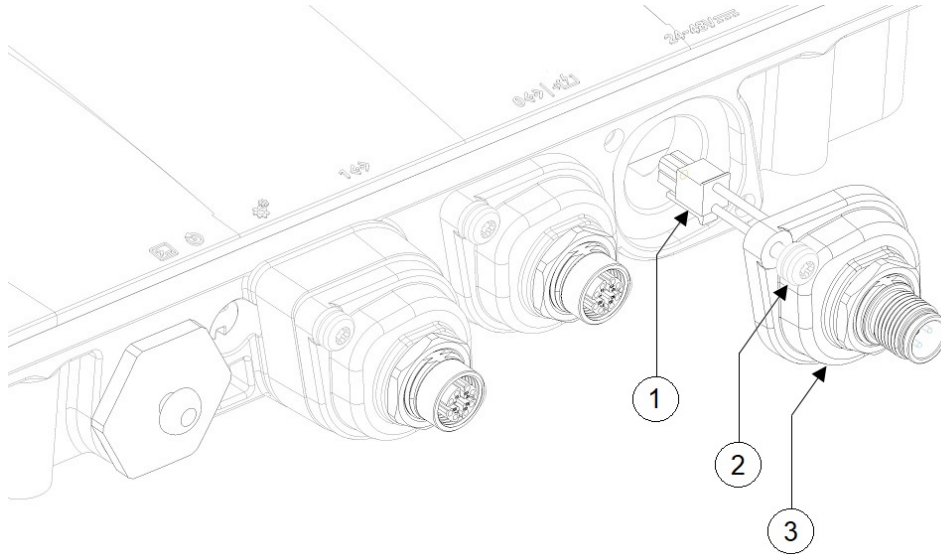
Figure 10: Installing O-ring on the M12 Adapter



1	M12 adapter	2	O-ring
3	O-ring installed on M12 adapter		

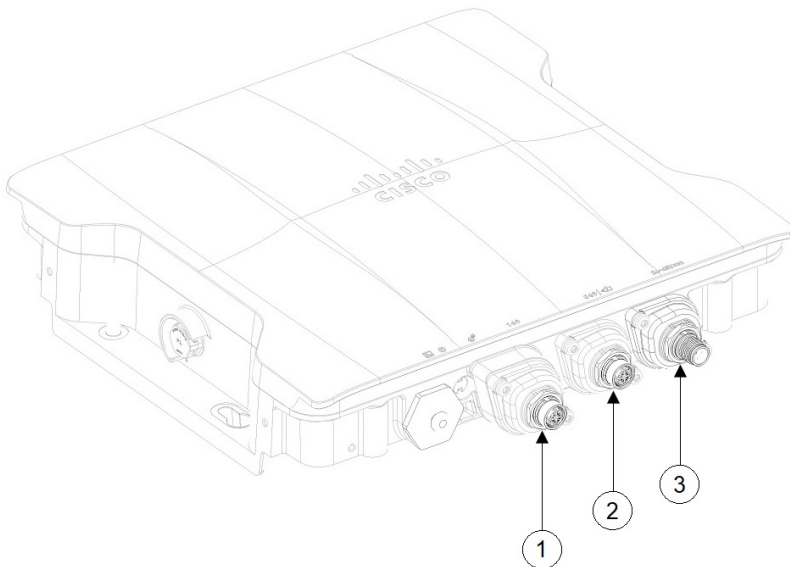
Connecting DC Power Port Using M12 Adapter

- Step 1** Place the O-ring on one side of the M12 adapter. Slightly stretch the o-ring and lift it over the other side. Avoid rolling the o-ring on to the adapter.
- Step 2** Plug in DC connector into the chassis. Press M12-PWR adapter onto the chassis, and ensure that the wires are not pinched.



1	DC connector	3	M12-PWR adapter
2	Captive screws		

- Step 3** Tighten the M12-PWR adapter captive screws into the chassis. Torque to 15-20 in-lbs.



1	SFP port connected using M12 adapter	3	DC power port connected using M12 adapter
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2	RJ45 port connected using M12 adapter		
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Connecting Data Cables

This AP supports data connections through the Ethernet port and the Small Form-factor Pluggable (SFP) port.

If you are using the SFP port to deliver data through a fiber-optic cable, the AP must be powered by DC power, power adapter, PoE+ power source, or a power injector.

For details on connecting to Ethernet port, see [Connecting an Ethernet Cable to the Access Point, on page 25](#).

For details on connecting to SFP port, see [Connecting to the SFP Port of the Access Point, on page 28](#).

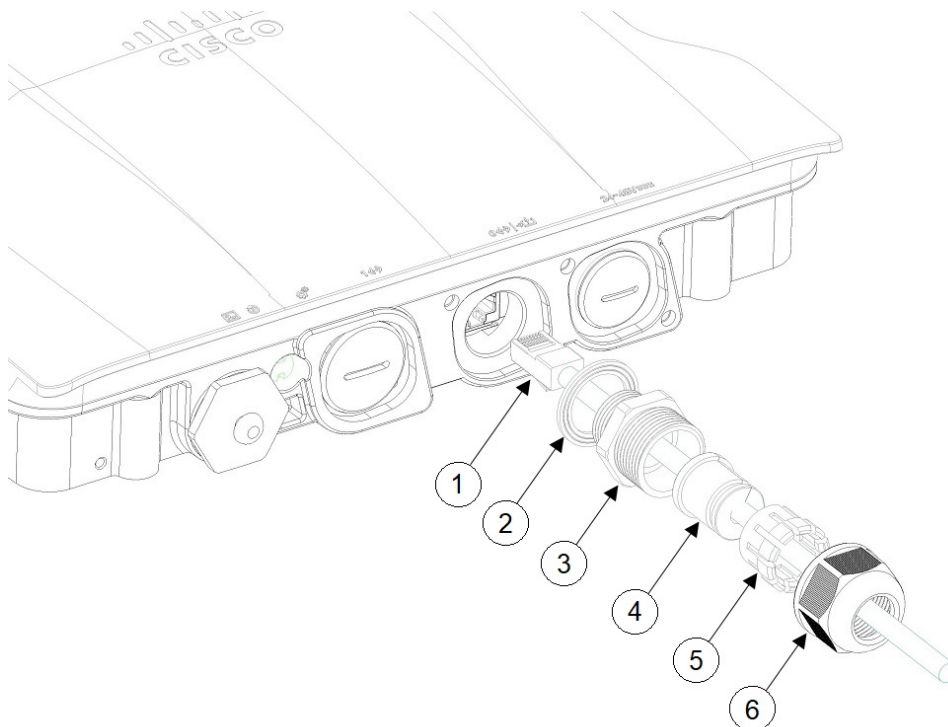
Connecting an Ethernet Cable to the Access Point

Connect an Ethernet cable to the access point by using a cable gland or an M12-RJ45 adapter.

Connecting to the RJ45 Port Using Cable Gland

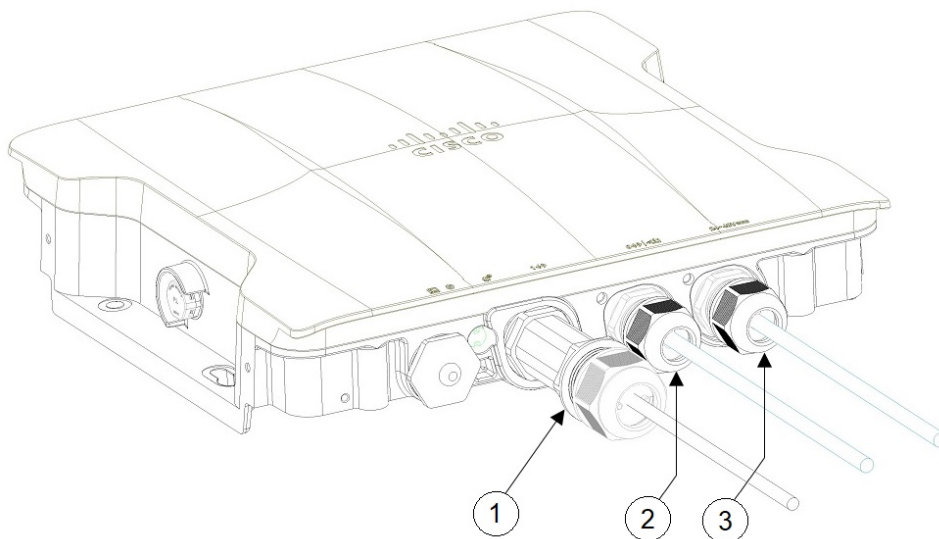
Follow these steps to connect to the RJ45 port using cable gland:

Step 1 Disassemble PG13 cable gland and slide parts over RJ45 cable in the order shown in the following figure:



1	RJ45 cable	4	Grommet
2	Gasket	5	Ferrule
3	PG13 body	6	Clamp nut

- Step 2** Plug the RJ45 cable into the RJ45 connector in the chassis.
- Step 3** Thread the PG13 body (with gasket) into the chassis. The PG13 must be screwed into the chassis at this point.
- Step 4** Insert the grommet into the ferrule, and press it into the PG13 body.
- Step 5** Tighten the clamp nut onto the PG13 body until the grommet compresses onto the RJ45 cable.

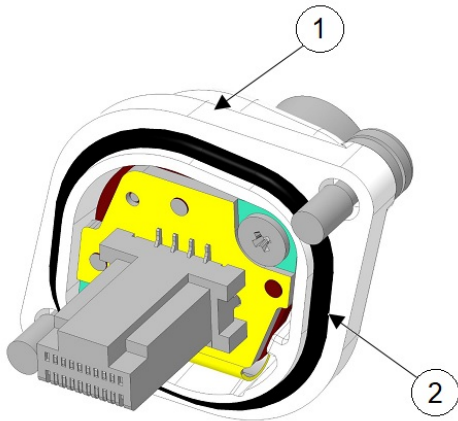


1	SFP port connected using cable gland	3	DC power port connected using cable gland
2	RJ45 port connected using cable gland		

Connecting to the RJ45 Port Using M12 Adapter

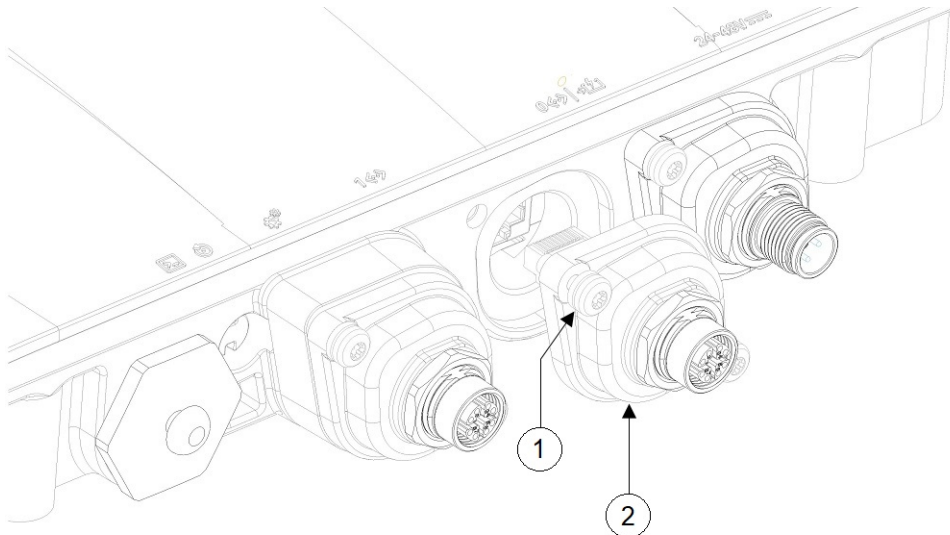
Follow these steps to connect to the RJ45 port using M12 adapter:

- Step 1** Ensure the O-ring is on the M12 adapter.



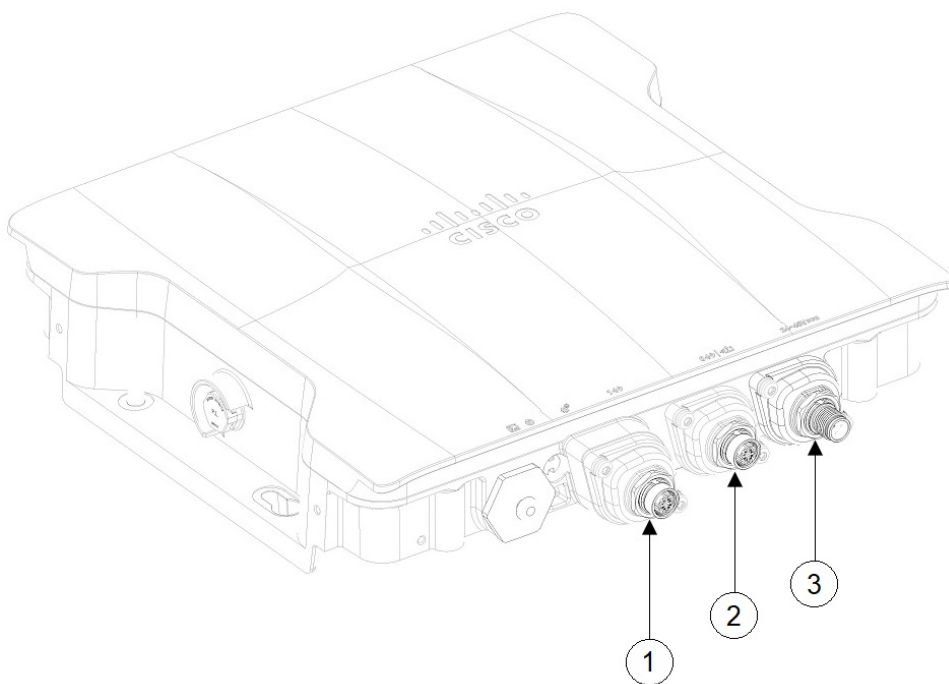
1	M12 adapter	2	O-ring
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Step 2 Align the RJ45 tab with the RJ45 connector in the chassis, and plug the M12 adapter into the chassis.



1	Captive screws	2	M12-RJ45 adapter
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Step 3 Tighten the M12 adapter captive screws into the chassis. Torque to 15-20 in-lbs.



1	SFP port connected using M12 adapter	3	DC power port connected using M12 adapter
2	RJ45 port connected using M12 adapter		

Connecting to the SFP Port of the Access Point

Connect to the SFP port by using a cable gland or an M12-RJ45 adapter.

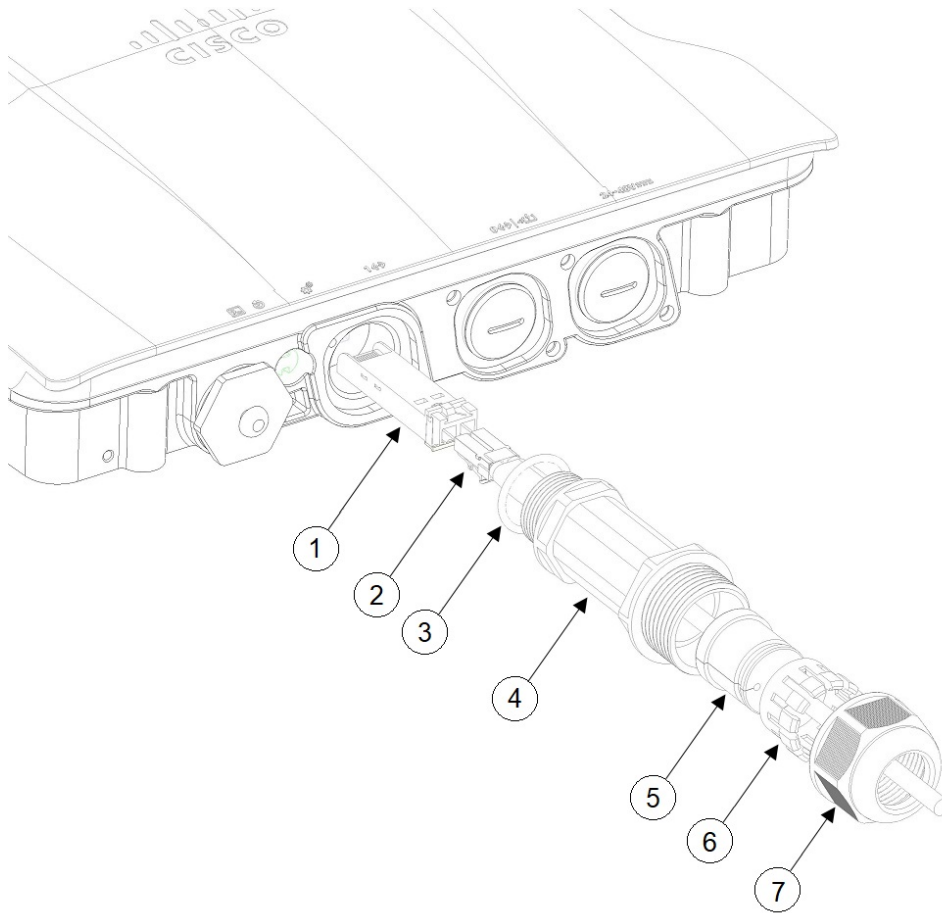


Note Copper SFP or Fiber SFP will be detected by the system only after a power cycle.

Connecting to SFP Port Using Cable Gland

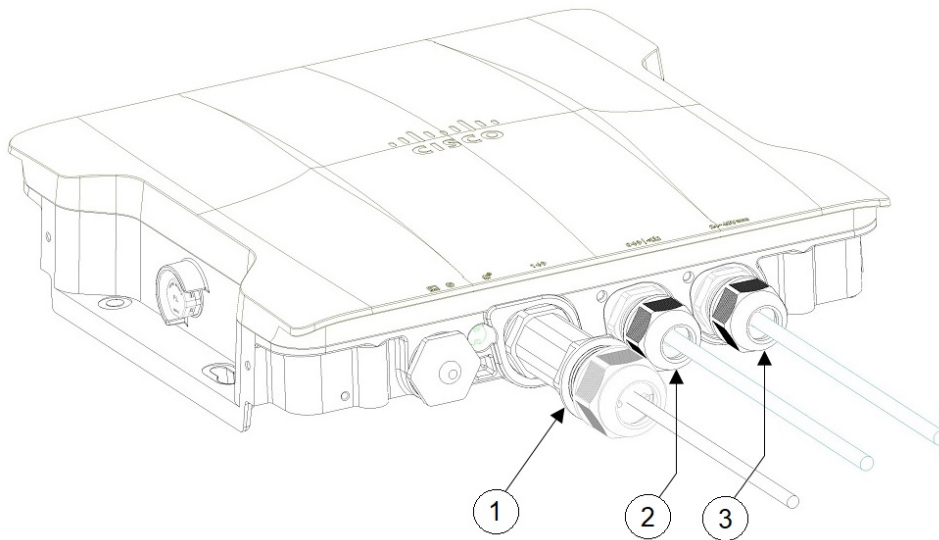
Follow these steps to connect to the SFP port using cable gland:

- Step 1** Insert the fiber SFP into the chassis.
- Step 2** Disassemble the fiber adapter and slide parts over fiber cable in the order shown in the following figure:



1	Fiber SFP	5	Grommet
2	Fiber cable	6	Ferrule
3	O-Ring	7	Clamp nut
4	Adapter body		

- Step 3** Plug the fiber cable into the SFP.
- Step 4** Thread the adapter body (with O-Ring) into the chassis.
- Step 5** Insert the grommet into the ferrule, and press it into the adapter body.
- Step 6** Tighten the clamp nut onto the adapter body until the grommet compresses onto the fiber cable.



1	SFP port connected using cable gland	3	DC power port connected using cable gland
2	RJ-45 port connected using cable gland		

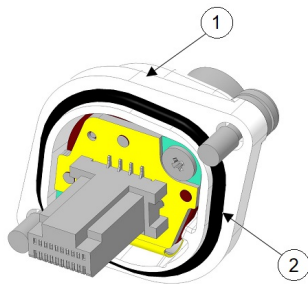
Using M12 Adapter on SFP Port

M12 adapter can be used only with a copper SFP and not supported with fiber SFP.

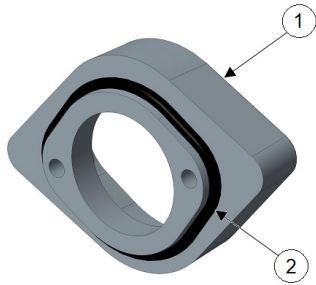
Follow these steps to connect M12 adapter to the SFP port:

Step 1 Insert the copper SFP in the chassis.

Step 2 Ensure the O-rings are on the M12 adapter and spacer.

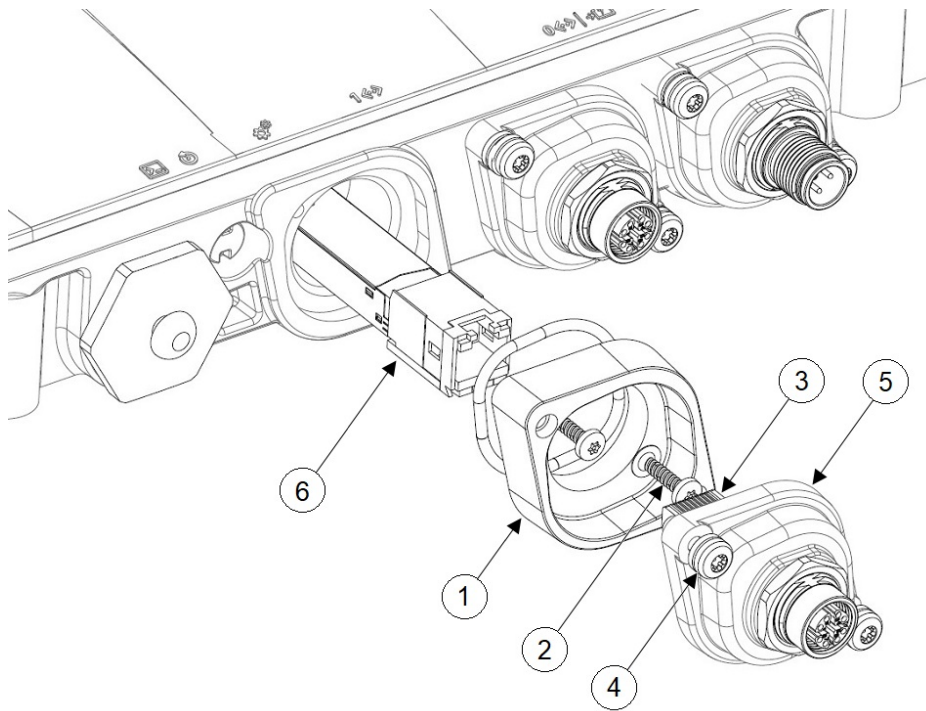


1	M12 adapter	2	O-ring
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1	Spacer	2	O-ring
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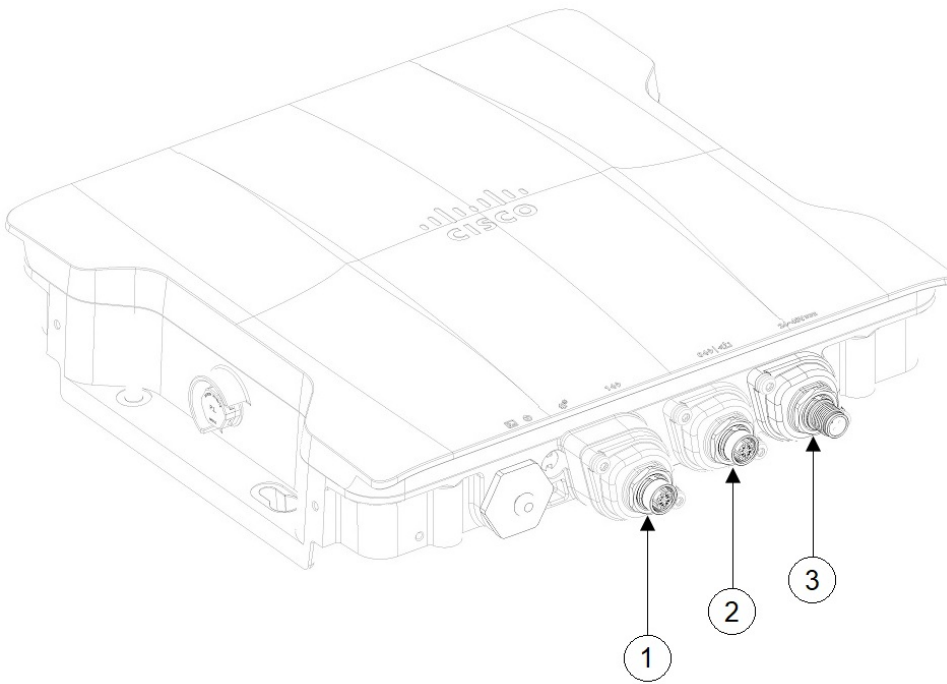
Step 3 Attach the spacer to the chassis with the screws provided (2 in the following figure)



1	Spacer	4	Captive screws
2	Spacer screws	5	M12-RJ45 adapter
3	RJ45 plug	6	Copper SFP

Step 4 Align the RJ45 plug with the RJ45 connector in the chassis and plug the M12 adapter into the chassis

Step 5 Tighten the M12 adapter captive screws into the chassis. Torque to 15-20 in-lbs.



1	SFP port connected using M12 adapter	3	DC power port connected using M12 adapter
2	RJ45 port connected using M12 adapter		