REGAL O*RXU 1.2 GHZ. LINE SPLITTERS, DIRECTIONAL COUPLERS, & POWER INSERTERS

Installation Instructions

technetix

Online

Email: info-usa@technetix.com
Website: technetix.com

Technetix Inc
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Overview

Regal style O*RXU 1.2 GHz Splitters and DCs divide RF signals into two or more directions. The 1.2 GHz OPIRXU Power Inserter combines RF & AC system power on to the coaxial cable for powering active devices in the HFC Network.

O*RXU Models

Table 1 includes each of the O*RXU Series Models

Table 1 O*RXU Series Models

Model	Description	Part Number
OSRX-**	Splitter; Line Passive 2 way	OSRX-02
	Splitter; Line Passive 3 way Balanced	OSRX-03
	Splitter; Line Passive 3 way Unbalanced	OSRX-33
ODCRX-**	Directional Coupler; Line Passive 8 DB	ODCRX-08
	Directional Coupler; Line Passive 12 DB	ODCRX-12
	Directional Coupler; Line Passive 16 DB	ODCRX-16
OPIRX	Power Inserter	OPIRX

Figure 1: Front view of a ODCRX-08 unit.

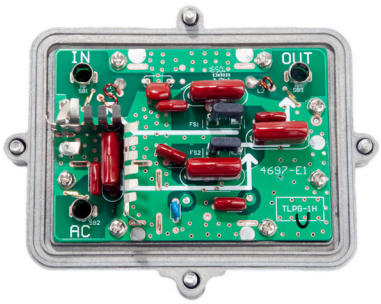
Figure 2: Front view of a OPIRX unit.

Power Distribution

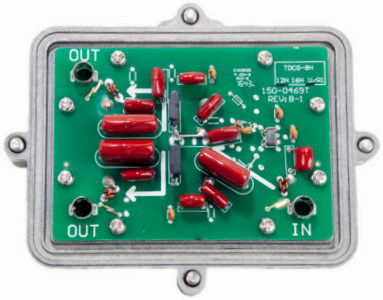
Before installing the O*RXU devices, you should determine the best configuration for your specific location by choosing the appropriate ports needed and then blocking power to ports that should not carry power.

Devices are shipped from the factory with shunts in place. Therefore, power is being passed to all ports. By removing these shunts, you can block stop power from passing to a port.

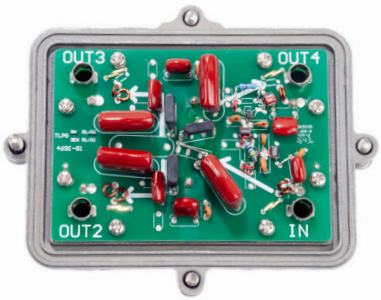
OPIRXU



OSRXU-02



OSRXU-33



Installation

There are three methods of installing the O*RXU passives.

Strand Mounting

1. Ensure the strand clamp and bolt assembly are loose. The unit will be adjusted after cable connections are made.
2. Install the O*RXU using instructions provided in the subsection Cable Installation below.

Extended Suspension Mounting

1. Remove the bolt and strand clamp from the top of the O*RXU housing. Retain bolt.
2. Mount the bracket supplied with the hanger bracket to the housing using the bolt removed in Step 1. Save the original clamp for future use.
3. Install the O*RXU as described in the subsection Cable Installation below.

Pedestal Mounting

1. Remove plugs from the threaded feeder ports to be used in the installation as shown in Figure 3.
2. Install O*RXU as described in the subsection Cable Installation below.

Cable Installation

1. Remove the red plastic port covers and discard.
2. If necessary, cut and trim the cable and center conductor as illustrated in Figure 4. The O*RXU accepts a standard feeder line center conductor diameter of 0.067 inches.
3. Install all cable connectors in the 5/8 x 24 ports of the O*RXU in accordance with instructions provided by the manufacturer of the cable connector. Pin-type connectors are recommended. Attach the connector body to the O*RXU housing and tighten to 40–50 in-lbs (4.52 to 5.7 N•m).

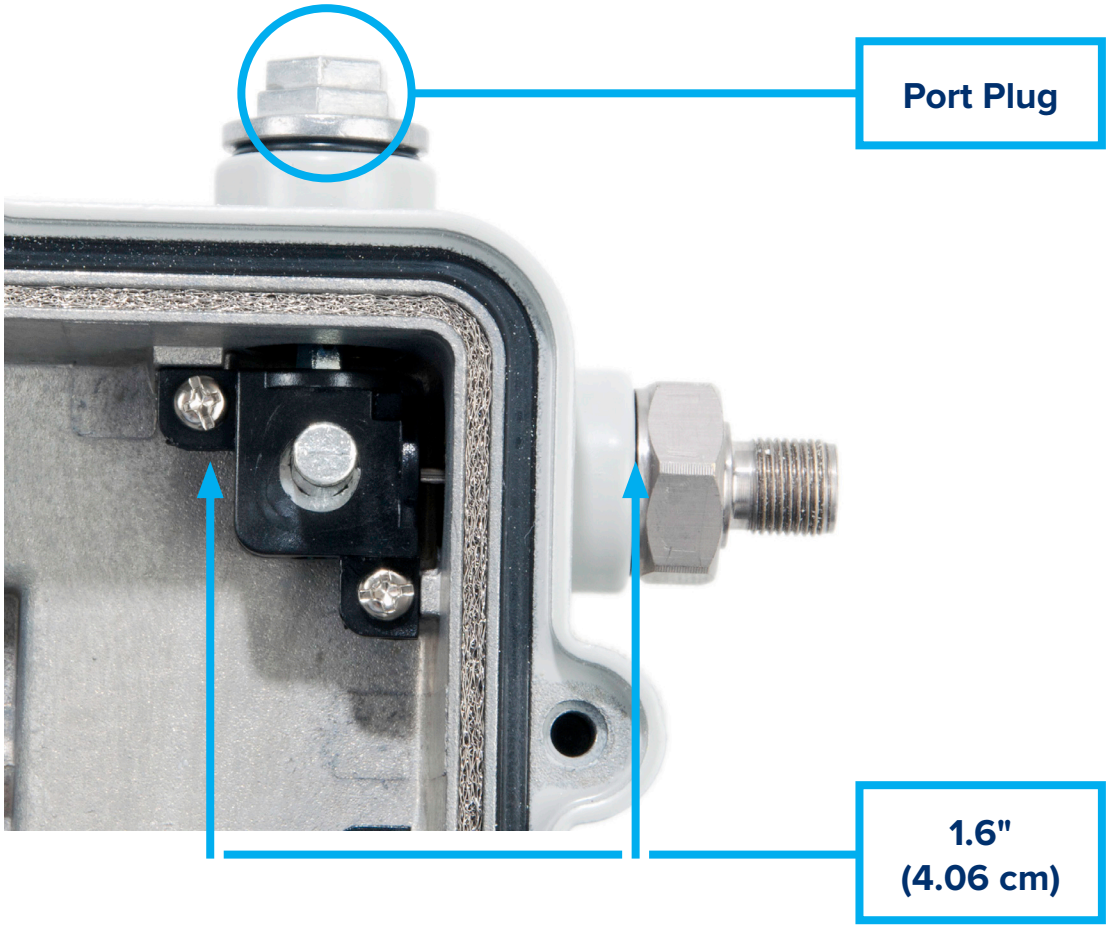


Figure 3: Cable connector

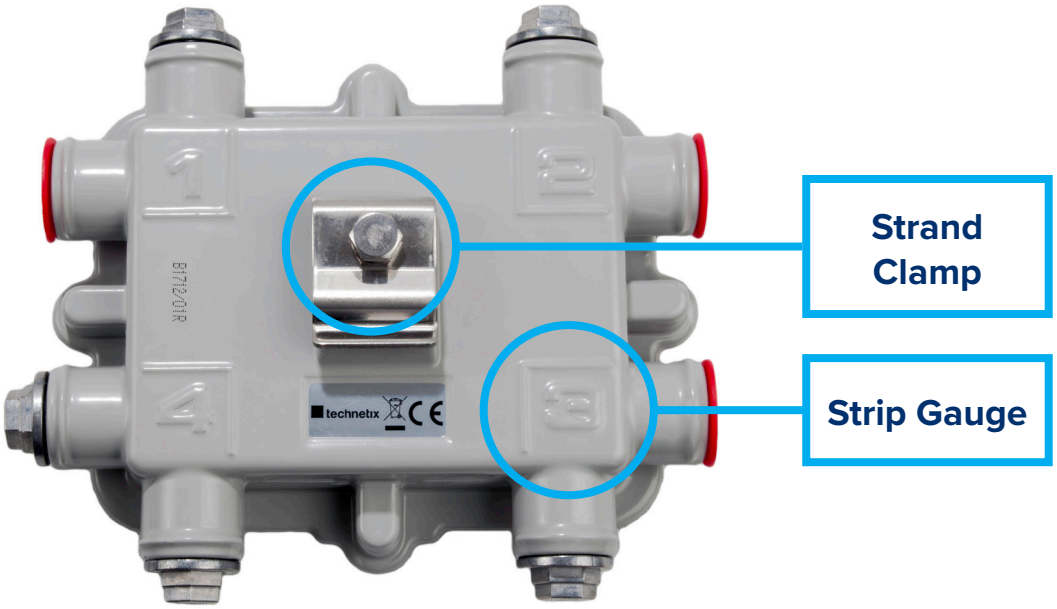


Figure 4: Housing base (OSRXU-XX shown)

4. The nut on the installed fitting should be loose enough to allow the cable end to pass through the fitting into the housing.
5. Once the cable is positioned, tighten the nut on the fitting to 70-100 in-lbs (7.8-11.3 N•m).
6. Remove the port plug from the 5/8 x 24 port and apply the seizure screw with a Phillips or hex head nut driver to a recommended torque of 16-20 in-lbs (1.7-2.3 N•m).
7. Seal the 5/8 x 24 port with the port plug and tighten to 20-40 in-lbs (2.3-4.5 N•m). Repeat this process with the other 5/8 x 24 port.
8. Position the O*RXU on the strand so the feeder cable expansion loops are equal in length and shape.
9. Secure the O*RXU with the strand clamp bolt (as shown in Figure 4) and torque to 26-44 in-lbs (2.95-4.9 N•m).
10. Secure loose lashing wire ends to the strand.

Removing Faceplate from Housing Base

The O*RXU receives high frequency signals, so caution is required to reduce the risk of signal anomalies to minimize the effect that removing the cover might have on transmission signals, please observe the instructions below.

1. Use a 5/16 nut driver to loosen the four bolts that attach the faceplate to the housing base. The housing bolts are shown in Figure 5.
2. Remove the faceplate parallel to the housing base with even pulling motion using bolts 1 and 2 as shown in Figure 5.

Figure 5: Housing bolts (ODCRXU-08 shown)

Installing the O*RXU Faceplate

1. Place the faceplate and the housing base parallel to one another.
2. Align the bosses in the faceplate with the corresponding depressions in the housing.
3. Insert the faceplate in the base until firmly seated.
4. Tighten the four bolts in the faceplate, shown in Figure 5, to a minimum of 26 in-lbs. and a maximum of 44 in-lbs. in the sequential order provided.

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