INSTALLATION INSTRUCTIONS

1054YM-GB | RGBW

Commercial Series Linear Floodlight with Ground Box

IMPORTANT NOTE: Composite Ground Box must be installed in accordance with the National Electrical Code (NEC) and local codes. All conduit entries must be sealed from moisture. Use appropriate sealing material on conduit fittings and conduit closure plugs. Luminaire fitting is wet location listed and suitable for in-grade applications. Luminaire fitting is suitable for all types of construction including poured concrete construction and in soil applications.

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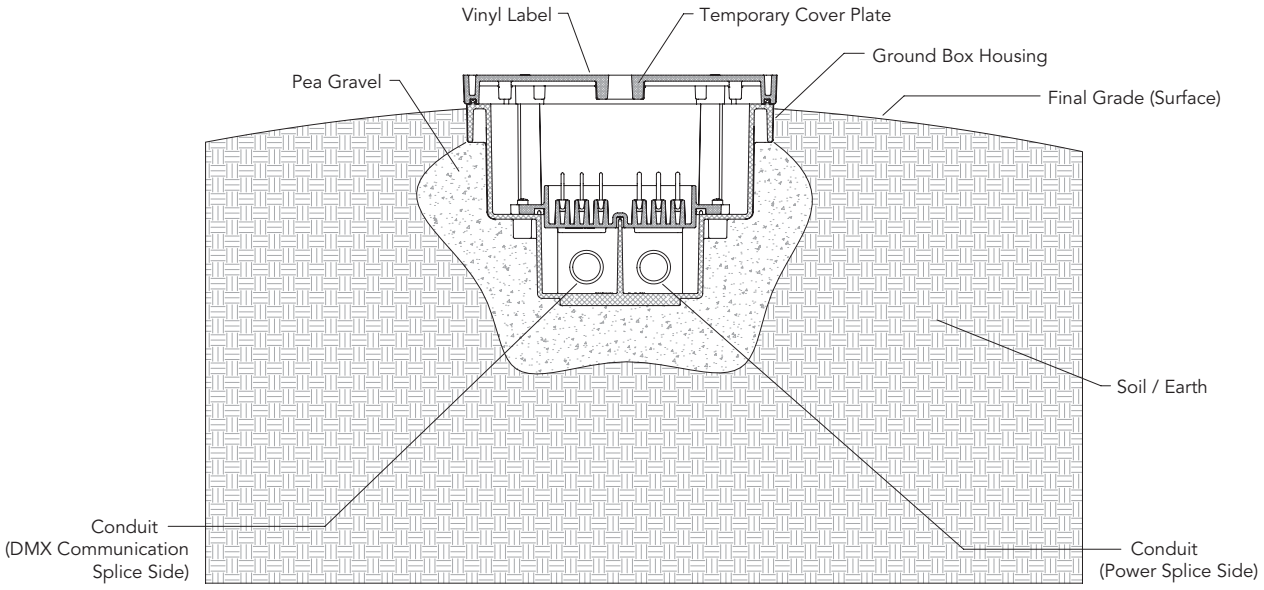
INGRADE SOIL INSTALLATION

IMPORTANT NOTE: Temporary Cover Plate and Vinyl Label **must** remain in place during Ground Box Housing installation.

PRECAUTION: Adequate drainage must be provided during installation. It is recommended the luminaire fitting be surrounded by 3" to 4" of pea gravel along the sides and a minimum of 6" of pea gravel at the bottom beneath the luminaire housing. Top of luminaire fitting must be above grade so rain and irrigation water will not accumulate for long periods of time.

1.Dig hole approximately 12" wide to a depth suitable to make top of Temporary Cover Plate ⅜" above grade. Pea gravel is required for seating the luminaire fitting housing and providing necessary drainage.
2. The Ground Box Housing is equipped with two separate splicing Junction Boxes (one for Power, one for DMX communication). Connect separate conduit runs to each of the two Junction Boxes in Ground Box Housing. It is recommended to use UL listed outdoor rated flexible conduit for in and out connections to ensure water tightness of splices.
3. Plug any unused NPT holes with closure plugs (provided).
4. Position the Ground Box Housing within the hole and back fill with pea gravel. Only the uppermost layer, 3" maximum, should be soil or organic mulch.
5. To pull Power conductor and DMX communication wiring, first remove and retain the Vinyl Label and Temporary Cover Plate by using an Allen wrench (provided). (NOTE: The Junction Box Cover and cover screws are pre-wired as part of the lid / finishing section of the Ground Box).
6. Pull electrical Power wires (line in) through conduit and into one of Junction Boxes. For through branch wiring, pull wires upward making a 6" loop above the top rim of the Junction Box. Designate this Junction Box for Power.
7. For DMX wiring, pull a suitable DMX cable in a similar manner to the power supply conductors into the second Junction Box designated for DMX communication. It is recommended that the DMX cable be suitable for EIA-485 (RS-485) use, with one or more low capacitance twisted pairs, with overall braid and foil shielding. Conductors should be 24 AWG (7/0.2) or larger for mechanical strength and to minimize volt drop on long lines. Designate this junction box for DMX communication.
8. Stuff the wire loops back into the junction boxes, and reinstall the Temporary Cover Plate with Vinyl Label onto the Ground Box Housing with screws provided.



SOIL INSTALLATION

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PROFESSIONAL OUTDOOR LIGHTING

CONCRETE POUR INSTALLATION

IMPORTANT NOTE: Temporary Cover Plate and Vinyl Label **must** remain in place during Ground Box housing installation.

PRECAUTION: It is recommended the luminaire fitting be **FLUSH to slightly proud** with finish grade.

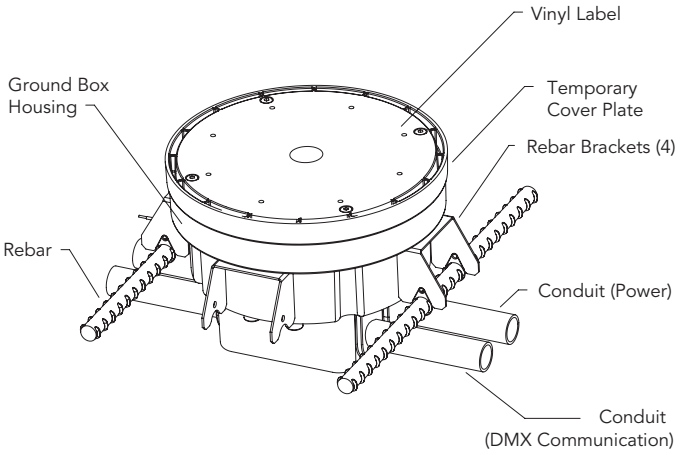
1. Dig a hole approximately 12" wide to a depth suitable to make top of Temporary Cover Plate **FLUSH to slightly proud** with finish grade. Rebar is required for positioning the Ground Box Housing and for providing necessary structural support.
2. The Ground Box Housing is equipped with two separate splicing Junction Boxes (one for Power, one for DMX communication). Connect separate conduit runs to each of the two Junction Boxes in the Ground Box Housing. It is recommended to use UL listed outdoor rated flexible conduit for in and out connections to ensure water tightness of splices.
3. Plug any unused NPT holes with closure plugs (provided).
4. Back fill the bottom of the hole once the Ground Box Housing is positioned with a layer of concrete, making sure the concrete is filled below the Ground Box Housing, and encases the rebar support.

(NOTE: To keep Ground Box Housing from floating during concrete pour, the Rebar Mount Bracket (RMB) kit should be used to affix housing to a wire/ rebar grid using standard masonry methods.)

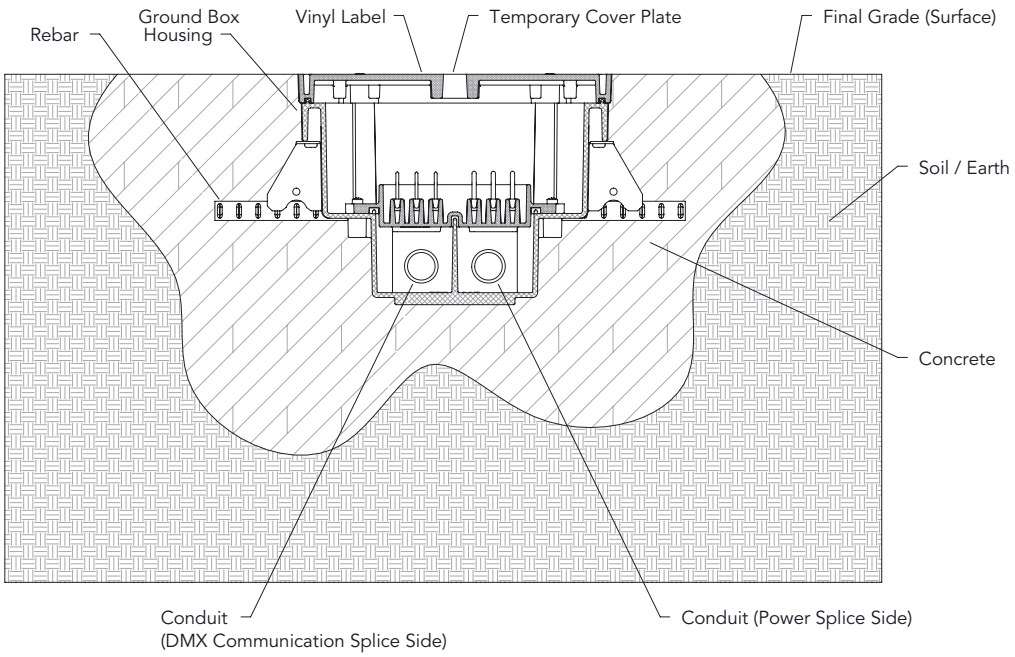
5. To pull Power conductor and DMX communication wiring, first remove and retain the Vinyl Label and Temporary Cover Plate using an Allen wrench (provided).

(NOTE: The Junction Box Cover and cover screws are pre-wired as part of the lid / finishing section of the Ground Box).

6. Pull electrical Power wires (line in) through conduit and into one of Junction Boxes. For through branch wiring, pull wires upward making a 6" loop above the top rim of the Junction Box. Designate this Junction Box for Power.



7. For DMX wiring, pull a suitable DMX cable in a similar manner to the power supply conductors into the second Junction Box designated for DMX communication. It is recommended that the DMX cable should be suitable for EIA-485 (RS-485) use, with one or more low capacitance twisted pairs, with overall braid and foil shielding. Conductors should be 24 AWG (7/0.2) or larger for mechanical strength and to minimize volt drop on long lines.
8. Stuff the wire loops back into the Junction Box and reinstall the Temporary Cover Plate and Vinyl Label with screws supplied.
9. Fill the remainder of hole with concrete (at least 3" thick). Trowel concrete so that it is even with Vinyl Label. Allow concrete to cure.



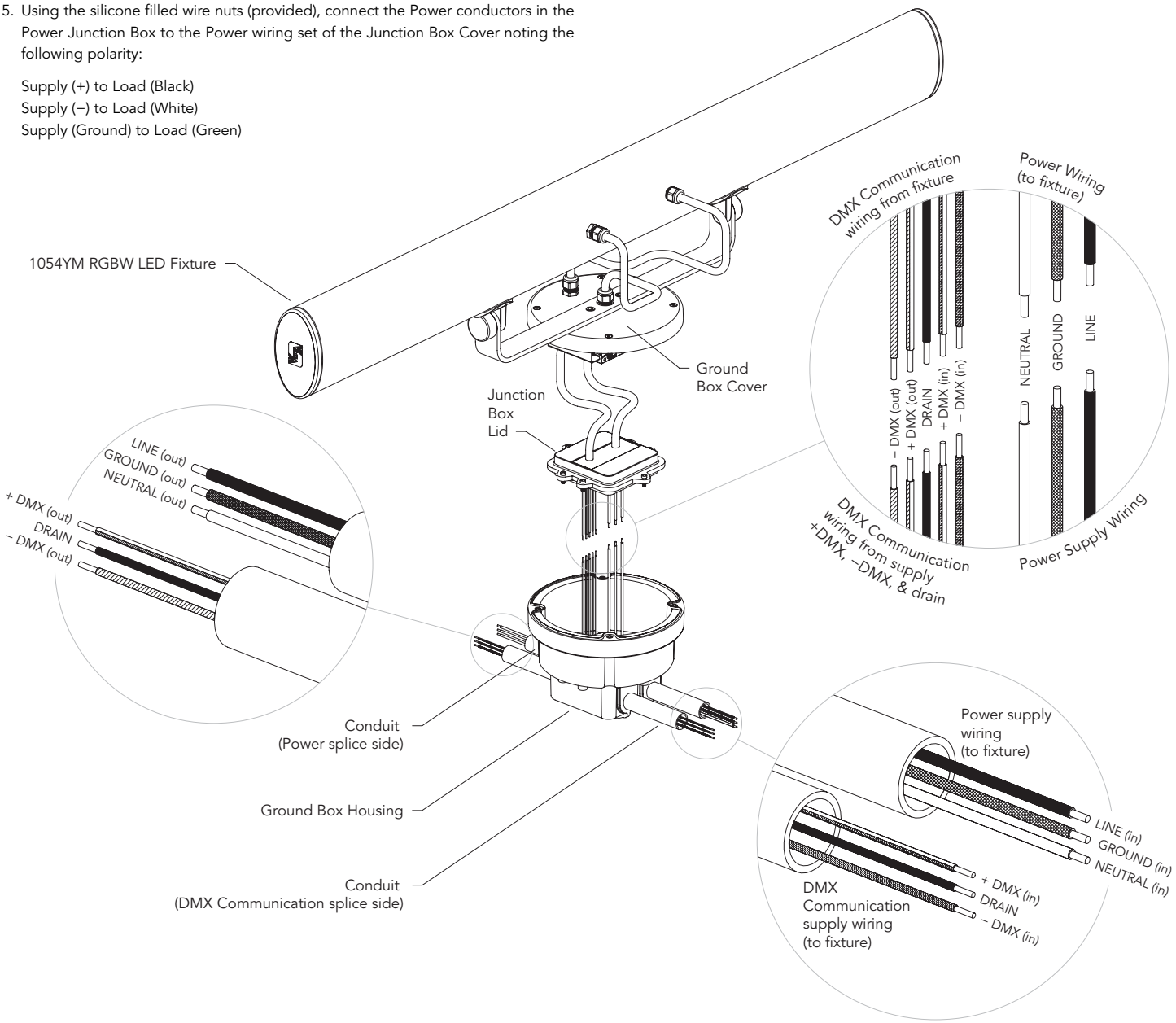
CONCRETE INSTALLATION

RGBW LED FIXTURE WIRING AND GROUND BOX / J-BOX LID INSTALLATION

1. Remove Temporary Cover Plate with Vinyl Label. Recycle or discard cover plate.
2. The LED fixture / Ground Box cover is pre-wired from the fixture to the Junction Box Cover with two output wiring sets, one designated for Power, and a second for DMX communication cable. Each of these wiring sets is to be terminated into separate Junction Boxes within the Ground Box Housing that have been designated for Power and DMX communication.
3. Position the fixture / Ground Box Cover, and Junction Box Cover over the Ground Box Housing such the Power wiring and DMX communication wiring are aligned with the separated Junction Boxes designated for Power and DMX communication.
4. In the Power splice Junction Box, pull the Power conductor wire loops out at center and strip the leads.
5. Using the silicone filled wire nuts (provided), connect the Power conductors in the Power Junction Box to the Power wiring set of the Junction Box Cover noting the following polarity:

   Supply (+) to Load (Black)
   Supply (–) to Load (White)
   Supply (Ground) to Load (Green)

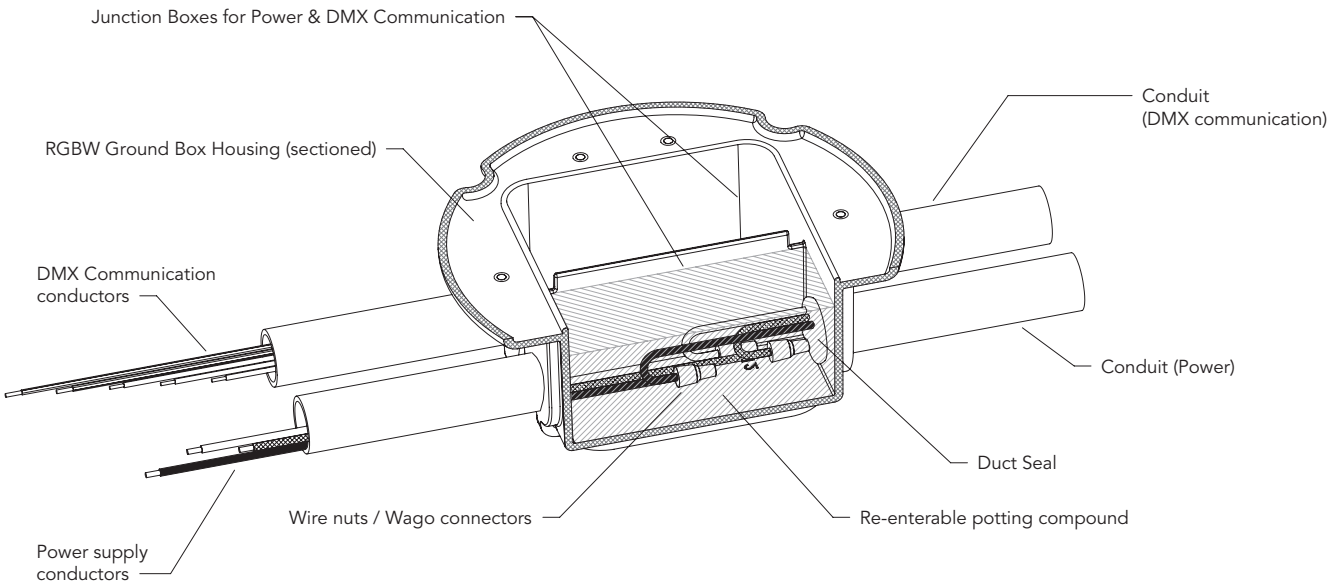
6. In the DMX communication Junction Box, use the Wago® lever splices provided to attach the incoming and outgoing DMX positive (+), DMX negative (–), and drain from the Junction Box Cover to the supply DMX communication cable (cable by others). Please note the markings that identify the incoming DMX (+), DMX (-), and outgoing DMX (+) and DMX (–).
7. Terminate the DMX (+) and DMX (–) end cabling with 120Ω resistor.



INSTRUCTIONS FOR SEALING WIRING COMPARTMENT

Note: Failure to properly wire and encapsulate wiring compartment will void product warranty.

1. After properly wiring the Power and DMX communication conductors (all luminaires wired in series – daisy chained), position the silicone filled wire nuts or Wago® connectors at the bottom of each Junction Box.
2. Test fixtures to ensure proper wiring and DMX communication signal. **(IMPORTANT! TEST BEFORE PROCEEDING)**
3. Use duct seal around the opening of the conduit entry and all wiring to seal off all of the conduit openings.
4. To properly mix the re-enterable potting sealant, remove the pouch from the protective cover. Grasp both sides of the sealant pouch, breaking the internal barrier between parts A&B.
5. Mix the sealant by kneading the two sides back and forth until thoroughly mixed.
6. Cut a corner off of the pouch and pour into the inside of each Junction Box, completely covering the splices. Fill the inside of each Junction Box to cover the duct seal but no more than to the top of the inside hub with re-enterable potting sealant. **DO NOT UNDERFILL OR OVERFILL!**
   Allow the sealant to dry for approximately 20 minutes or until compound has gelled.
7. Re-install the Junction Box Lid, making sure no wiring is pinched and the lid is fully tightened until the lid bottoms out on the inside of the Ground Box.
8. Position the lid on the RGBW Ground Box and affix the lid onto the RGBW Ground Box.
9. Tighten six screws fully.
10. Aim and adjust fixture to target.
11. Supply power and DMX signal to the luminaire and check for proper operation.



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