



Rainbow Distributors USA, Inc.
P.O. 952946
Lake Mary, Florida 32795

Specifications

Wire Grounding Unit (WGU)

	Standard Specifications for Surge Protection
Surge Element	3-element maximum duty fail-safe gas tube.
Rating	40,000 A surge capacity (single-cycle, 8 by 20 microsecond waveform).
Life	Minimum 1,000 surges (1000 A to ground).
Fail-Safe	Integral fail-shortened device.
Insulation Resistance	1,000 megohm minimum at 100 volts of direct current (VDC).
Clamp Voltage	a. a. Impulse at 100 volts per microsecond: Typically 500 volts. b. b. Direct Current: 300 to 500 volts.

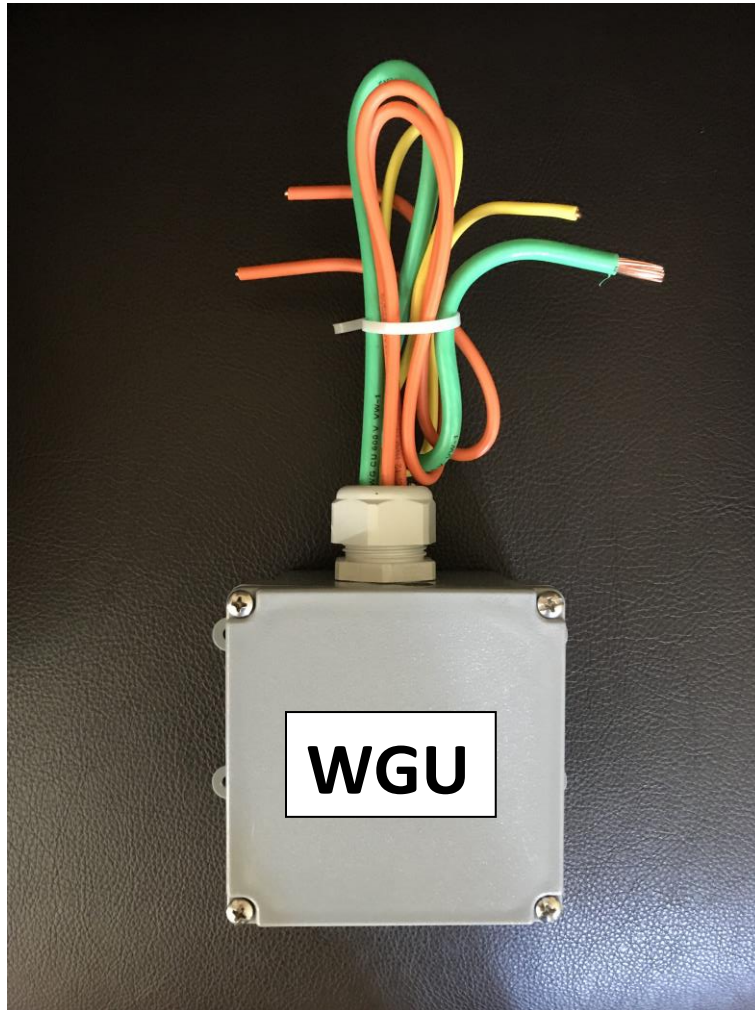
**Meets requirements as specified under Section 630 of the
FDOT Standards Specifications for Road and Bridge Construction – July 2018**

Wire Grounding Unit

Installation Procedure - WGU

Description

This procedure the installation of the WGU tone-wire grounding unit. This unit will provide a waterproof connection point for a tone-wire system in a manhole location.



WARNING

QUALIFIED PERSONNEL SHOULD ONLY PERFORM THIS INSTALLATION.

DO NOT TOUCH THE TONE-WIRE UNTIL YOU HAVE VERIFIED NO AC OR DC VOLTAGES ARE PRESENT. THE MANUFACTURER AND SUPPLIERS OF THESE PRODUCTS DISCLAIMS ANY LIABILITY OR RESPONSIBILITY FOR THE RESULTS OF IMPROPER OR UNSAFE INSTALLATION PRACTICES.

Wire Grounding Unit

Mounting

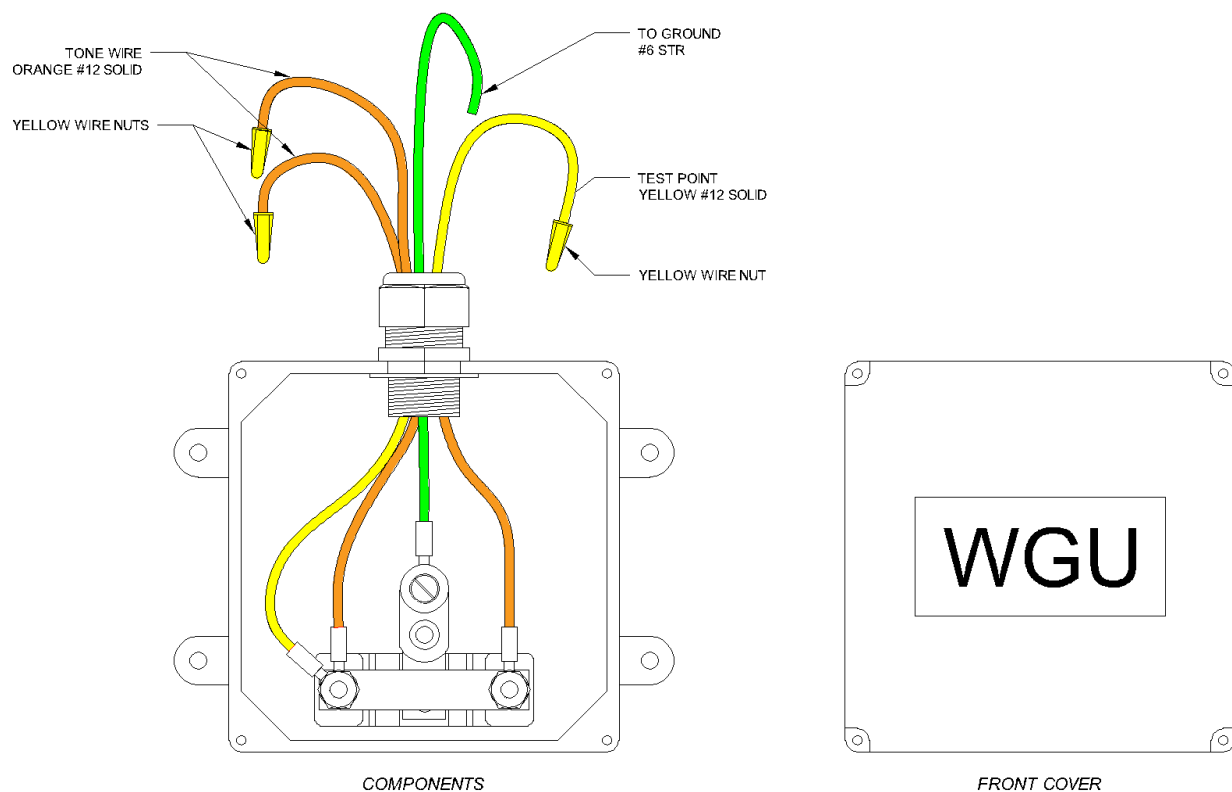
Note: The WGU will not be opened during the installation procedure.

Select a location in the pull box nearest the top and away from cables and other obstructions. Mount the WGU with the anchors provided to the wall of the pull box using the external tabs.

Wiring

Note: Cable service loops should be left in all cables during installation.

There are (4) four wires used as external connection points for the WGU.



The ORANGE wires will be connected to the tone-wires entering from two different direction as shown above. A 3M-DBO waterproof splice kit is provided for this purpose.

The GREEN wire will be connected to the ground rod per project specifications. Do not use a service ground associated with the power circuit for the purpose.

The YELLOW wire will be used in the future for connection to a tone generation for locating purpose. A 3m-DB waterproof splice kit is provided on the end of this cable and is removed only by a Locating Professional.

Wire Grounding Unit

Warranty

Rainbow Distributors warrants that its products are free from defects in material and workmanship. Subject to the conditions and limitations set forth below, Rainbow Distributors will, at its option, either repair or replace any part of its products that prove defective by reason of improper workmanship or material.

Repaired parts or replacement products will be provided by Rainbow Distributors on an exchange basis, and will be either new or refurbished to be functionally equivalent to new. This warranty does not cover any damage to this product that results from accident, abuse, misuse, natural or personal disaster, or any unauthorized, disassembly, repair or modification.

Duration of Warranty

The following product is covered by this warranty for a period of **2 Years** from the date of final acceptance of original installation. This warranty covers only repair or replacement of defective product, as provided above and is not liable for, and does not cover under warranty, any cost associated with servicing and/or the installation of product. **This warranty is transferable to owner if installed under a construction contract.**

WARRANTY CLAIM PROCEDURES AND REQUIREMENTS

To obtain warranty service, you may return a defective product, freight-prepaid and insured for the price paid, to the dealer or distributor from which you purchased the product. You must include product identification information. Including model number and serial number (if applicable) with a detailed description of the problem you are experiencing. You must also include proof of the date or original retail purchase as evidence that the product is within the applicable warranty period.

DISCLAIMERS, THE FOREGOING IS THE COMPLETE WARRANTY FOR PRODUCTS AND SUPERSEDES ALL OTHER WARRANTIES AND REPRESENTATIONS, WHETHER ORAL OR WRITTEN. EXCEPT AS EXPRESSLY SET FORTH ABOVE, NO OTHER WARRANTIES ARE MADE WITH RESPECT TO PRODUCTS AND EXPRESSLY DISCLAIMS ALL WARRANTIES NOT STATED HEREIN, INCLUDING, TO THE EXTENT PERMITTED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL BE LIABLE TO THE PURCHASER OR TO THE USER OF A PRODUCT FOR ANY DAMAGES, EXPENSES, LOST REVENUES, LOST SAVINGS, LOST PROFITS, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE PURCHASE, USE OR INABILITY TO USE THE WGU PRODUCT, EVEN IF THE MANUFACTURER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.