INSTALLATION INSTRUCTIONS FOR UNIVERSAL ISOLATION TERMINAL

COVERS UNITS:

UIT-11414

UIT-11414D

INSTALLATION INSTRUCTIONS

Universal Isolation Terminal
UIT-11414

Description:

The External Isolation Terminal Kit is designed to provide a watertight, insulated connection to the external grounding studs on a variety of splice enclosures.

An optional insulated Quick Disconnect is available to allow for simple connecting and disconnecting of the Isolation Terminal Stub from the #6 user provided ground wire.

Safety Warnings:

⚠️ Reduce the risk of accidents by studying all of the instructions carefully before you start working.

Personnel

Installation and service to be carried out by authorized/trained personnel with the appropriate technical training and experience necessary.
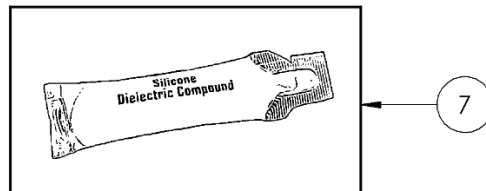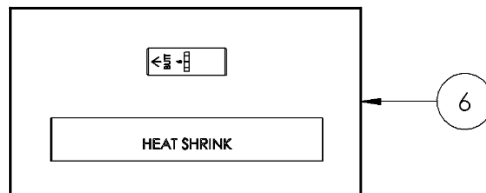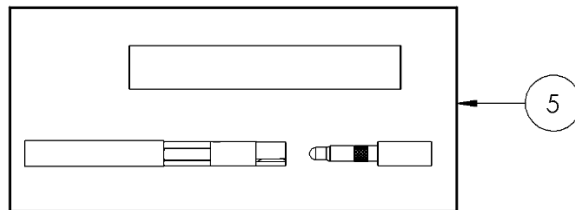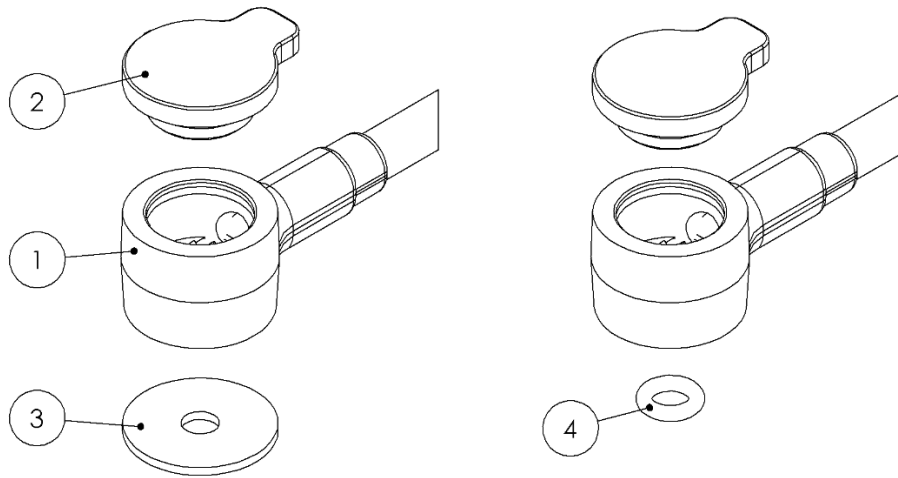
Hardware

When working around an area of energized lines extra care should be taken to prevent accidental electrical contact.

Universal Isolation Terminal

UIT-11414

Nomenclature:

ITEM	DESC	UIT-11414	UIT-11414D
1	ISOLATION TERMINAL	X	X
2	TERMANAL CAP	X	X
3	LARGE FLAT GASKET	X	X
4	O-RING SEAL	X	X
5	QUICK DISCONNECT (#6QDK)		X
6	BARREL SPLICE & HEAT SHRINK	X	
7	SILICONE PACKET	X	X

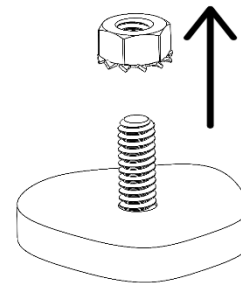# INSTALLATION INSTRUCTIONS

Tools Required:

- 7/16" Wrench (or socket)
- Crimping Tool (6awg Copper Lug capacity)
- Heat Gun (or alternative heat source)

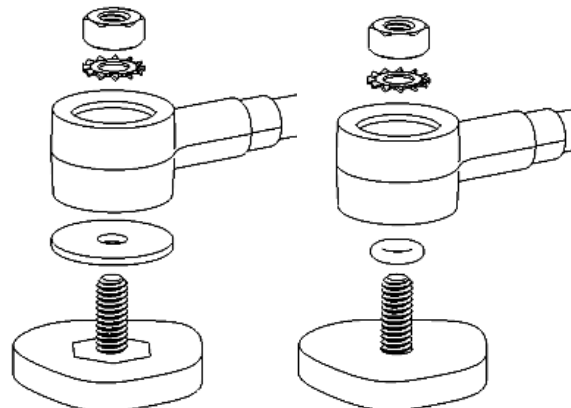## Isolation Terminal Installation to Splice Enclosure:

1

Remove any existing nuts or washers from the ground feed through bolt on the enclosure end face.

2

Depending on the enclosure type and model utilize the appropriate sealing gasket or o-ring over the ground stud. Gasket or o-ring must be sealed against the plastic housing for proper functionality.
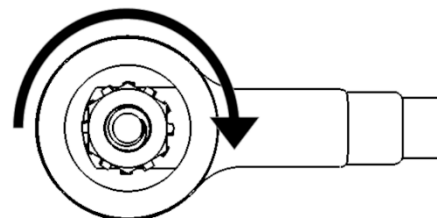
3

Place the Universal Isolation Terminal over the ground stud with the washer and nut.

4

Tighten nut to 50 in-lb (5 nm) of torque.
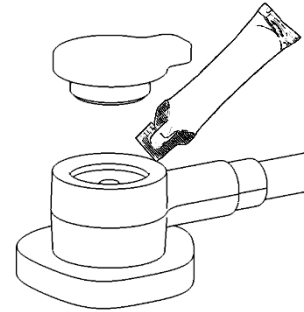
Universal Isolation Terminal
UIT-11414

Sealing Isolation Terminal:

Once the Isolation Terminal has been properly installed, silicone gel must be applied to create a watertight connection.

5

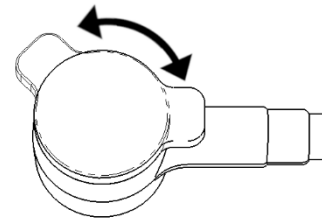Fill the body and cap of the Isolation Terminal completely with supplied silicone gel packet.

6

Place cap on body, applying enough pressure until the cap snaps into place.

7

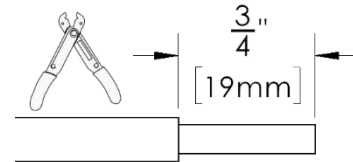Rotate the cap 180 degrees and return to original position. This verifies the cap is properly in place.

Connection of Isolation Terminal to Field Ground Wire:

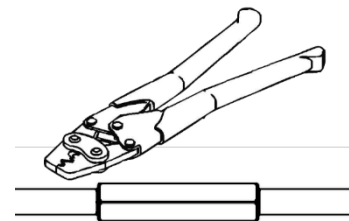## Barrel Splice and Heat Shrink Method (UIT-11414 & UIT-11419) –

1

Remove ¾" of insulation from the vault side ground wire and slide the exposed wire into the Barrel Splice.

$\frac{3}{4}$ "
[19mm]

- VERIFY GROUND WIRE CONNECTION TO DESIRED ENCLOSURE PASS THROUGH
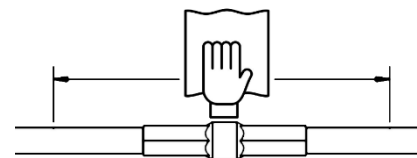- FEED HEAT SHRINK TUBING ON THE GROUND WIRE PRIOR TO CRIMPING

2

Crimp the end of the barrel splice using the approved crimping tool.
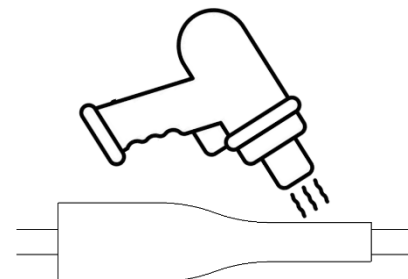
3

Use scuff tape on the entire area to be covered with heat shrink tubing. A clean scuffed surface is important to achieve a watertight seal.

4

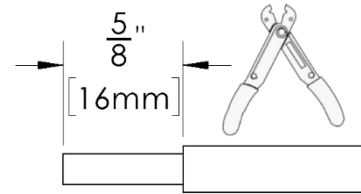Center heat shrink over splice and apply heat.

RDC PRODUCTS

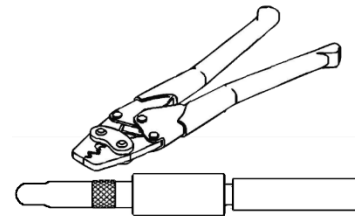Universal Isolation Terminal
UIT-11414

Quick Disconnect Method (UIT-11414D & UIT-11419D) –

1

Remove 5/8" of insulation from the vault side ground wire and slide the exposed wire into the Barrel Splice.

$\frac{5}{8}$"

[16mm]

2

Crimp the male end of the Quick Disconnect using the approved crimping tool.

3

Pull apart Quick Disconnect and squeeze any remaining silicone from the previous procedure into the rubber sealing tube.

4

Install the rubber sealing tube over the male end of the disconnect until it is just protruding from the silicone. Reconnect the Quick Disconnect and center the Sealing Tube over the connection. Verify none of the metal connection is exposed.