



NothotTM Magnetic Test Lead Attachment (Patent Pending) "No Heat" Method of Test Lead Wire Attachment

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Introduction

This is a method of attaching wires to a buried metal pipeline without using typical methods that generate heat on the pipeline during wire attachment. There is a need to have an alternative to thermo-welding or brazing in specific instances when use of heat related wire attachment is unsafe or undesirable.

Features and Advantages

- Low resistant electrical connection without welding or heat involved. Uses a magnet and conductive epoxy.
- Fits to any sized pipeline.
- Avoids potential damage if plastic pipe insertion is unknown.
- Can be used when pipe wall thickness is thin.
- No risk of ignition in high risk combustible environments.
- Keyhole compatible installation using the NotHot keyhole applicator tool
- Low profile connection on pipeline reduces risk of soil stress damage to the connection.
- Compatible with a variety of coating patch products.
- Coating can be immediately applied at time of installation. The 2-part conductive epoxy applied under the magnet cures even after external coating patch is applied.

Description

This alternative method of pipeline wire attachment consists of a pre-manufactured metal saddle constructed with a factory attached silver soldered wire and embedded neodymium magnet. See figure 1. The coupon is then placed on the prepared pipeline with conductive epoxy. See figure 2. The strong magnet holds the saddle in place while the conductive epoxy cures. Both provide conductivity.



Figure 1- Metal Saddle with Embedded Magnet



Figure 2- Attached with Conductive Epoxy

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Figure 3- Keyhole install on a 2" gas line



Figure 4- Wax coating applied through keyhole



Figure 5- Keyhole applicator tool holding a NotHot



Figure 6- Complete NotHot Kit

