

SPL™ - FBR

Linear Anode

Installation Guide



**READ THE FOLLOWING INSTRUCTIONS
CAREFULLY BEFORE PROCEEDING.**

Corrosion Problems Solved



Receiving Linear Anode Assemblies

Purpose

The purpose of the identification and inspection sections below is to describe the proper procedures to be followed when receiving the MATCOR SPL-FBR Linear Anode Assemblies as listed in the design's CP Bill of Materials. This section describes the identification of the linear anode assemblies, the inspection procedures and communication procedures to be used in the process of handling the linear anode assemblies.

Identification

Each cathodic protection component has been labeled with a distinctive tag/packaging that identifies:

- *The model code*
- *Anode rating*
- *Anode length*
- *Lead wire type and lengths*
- *Customer name*

Locate the tag on each of the cathodic protection system components or on the corresponding box/crate and insure that the quantity matches the information provided.

Inspection

Typically the SPL-FBR linear anode assemblies are packaged on a shrink-wrapped wooden reel. Carefully examine the materials to ensure that no damage has occurred during shipping and handling. Damage should be easily spotted by examining the exterior packaging for tears, punctures or other visible signs of damage.

Communication

If you observe damage to any of the materials is observed inform MATCOR and/or the shipper as soon as possible. DO NOT install any material that is suspected to be damaged.

Installing SPL-FBR Linear Anode Assemblies

Purpose

The purpose of this section is to describe the general procedures to be followed in the installation of the SPL-FBR Linear Anode component of the cathodic protection system. It is not the purpose of this section to provide step-by-step installation procedures. It is important that the system's design drawings/specifications are reviewed for the lengths and locations of the SPL-FBR Linear Anode along with the system's other components. The installation contractor should thoroughly familiarize themselves with the installation requirements and review and other additional information that may be required. This section assumes that the procedures for receiving the system's materials have been properly performed.

Instruction

Preparation

1. Refer to the design/installation drawings for the locations where the anode is to be installed.
2. Measure and mark the distance from the pipeline or structure being protected to where the anode is to be installed. Refer to system design drawings for distance required between anodes and piping/structure. Several measurements may be necessary to maintain the anode along the location as shown in the design/installation drawings.
3. Remove any protective material that may have been used solely for shipping purposes. **DO NOT USE A SHARP KNIFE OR OTHER SHARP OBJECT TO REMOVE ANY TAPE OR PLASTIC WRAP.** Utilize caution so as not to damage the anode's lead wire or the fabric that houses the prepackaged anode.

Installation

1. Place the anode in accordance with the design's installation procedures. The SPL-FBR Linear Anode can be installed with a variety of methods including cable plow, hand-placed in a trench or shallow ditch, pulled through a horizontal bore, or laid on top of a prepared surface.
2. Ensure that the label for the corresponding anode's lead wire is still intact and/or label each anode lead wire. Where noted in the design details, prepare a field splice in accordance with the project requirements and assure that the splice is properly cured prior to backfill in accordance with the splicing system installation requirements.
3. Backfill over the anode with clean, native backfill per the requirements of the specific project. Remove all large objects and other debris.
4. Route anode lead cables to the specified Junction Box or termination point as shown in the design drawings.
5. Terminate the anode lead cables as per the design requirements.

Field Cutting SPL-FBR Linear Anode Assemblies

Purpose

The purpose of this section is to describe the general procedures to be followed in the installation of the SPL-FBR Linear Anode when the anode must be cut to a specific length. The installation contractor should thoroughly familiarize themselves with the cutting requirements and review any other additional information that may be required prior to commencing the work.

Preparation



1 Measure the required anode segment length in accordance with the design requirements and add an additional 20 cm (8") for lost anode material during the field cutting process.

2 Using plastic tie wraps, tightly secure the external braiding approximately 2.5 cm (1") in both directions from the location to be cut.



3 Using an appropriate sized cutting tool, cut completely through the entire assembly, including the anode and internal header cable, yielding 2 separate pieces.



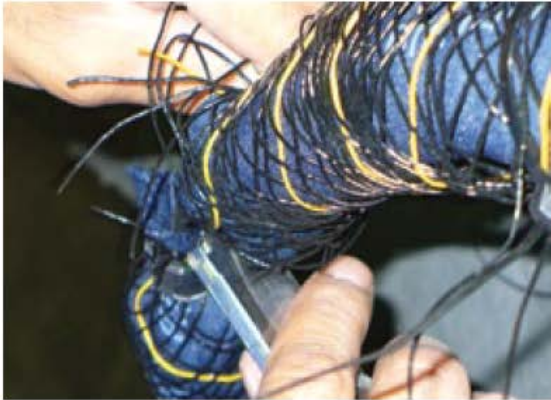
4 Carefully pour coke backfill from each end to approximately 10 cm (4") of length. Dispose of coke backfill in accordance with acceptable site regulations and requirements.



5 Tightly compress the coke backfill around the internal header cable and anode assembly.



6 Using electrical tape, secure the tightly packed coke to the internal header cable and anode assembly.



- 7** Using a knife, carefully trim away excess braiding materials and inert fabric housing. Take care not to damage or cut the insulation of the internal header cable while removing the excess materials.



- 8** Trim the exposed anode wire back as close as possible to the end of the SPL™-FBR Linear Anode.



- 9** Install anode segment in accordance with the design/ installation requirements.

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