

# Paige spec Decoder Cable Fuse Device (DCFD)<sup>TM</sup>

irrigation

These products were specifically designed as electrical isolation devices to help with troubleshooting of damaged or non-functioning 2-Wire irrigation systems. Single or multiple sections of the electrical circuit can be disconnected or isolated by simply removing a fuse, without cutting wires or undoing splices/joints. **Patent Pending.**

**Quick-disconnect Splitter** – Splits the incoming signal from the central computer into single (270DCFD1), two (270DCFD) or three (270DCFD3) directions. See wiring diagrams.

**Fuses** – Standard 5-amp Mini Automotive fuses are utilized to act as circuit switches when they are inserted (closed/on) or removed (open/off.) The fuses also provide lightning protection when the electrical surges exceed the capacity of the 5-amp fuse(s.) The isolation of circuit sections eliminates or minimizes electronic component failure.

**Test Posts** – These posts (silver dots in the wiring diagrams to the right) are accessible when the threaded cap is removed. This allows the measurements of voltage and current flow. It may be necessary to use a “True RMS” multi-meter to perform these tests. Consult with the manufacturer of the decoder system.

- Voltage can be measured by connecting the probes of the meter to the Red/Black posts
- Current flow can be measured when a fuse is removed and the probes of an in-line amp meter are connected to the posts on each side of the empty fuse holder.

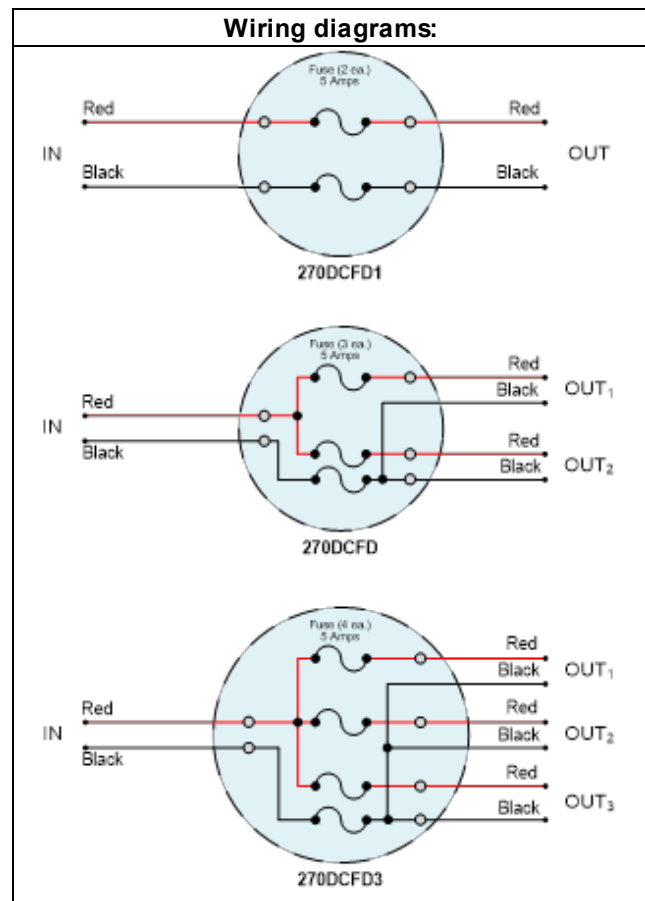
**Water Tight** – A resin is used to waterproof the wire leads.

**Wire Leads** – All wires are 14 AWG, Type UF/TWU direct burial, 36" long. This allows the assembly to be brought above grade when troubleshooting and accessing the fuses.

**O-Ring Seal** – Provides a waterproof capsule. Cap is unscrewed to access the fuses.

**ACME Threads** – Minimizes binding of threads due to soil.

**Splices/joints** - All connections of the 14 AWG wire leads onto the 2-wire cables shall be made using a 3M model DBR/Y-6 (Paige Electric [270672](#).)



**Product Dimensions:**

| Model    | Diameter | Height  |
|----------|----------|---------|
| 270DCFD1 | 2-3/16"  | 3-1/16" |
| 270DCFD  |          |         |
| 270DCFD3 | 2-3/8"   | 3-1/4"  |

**Packaging:**

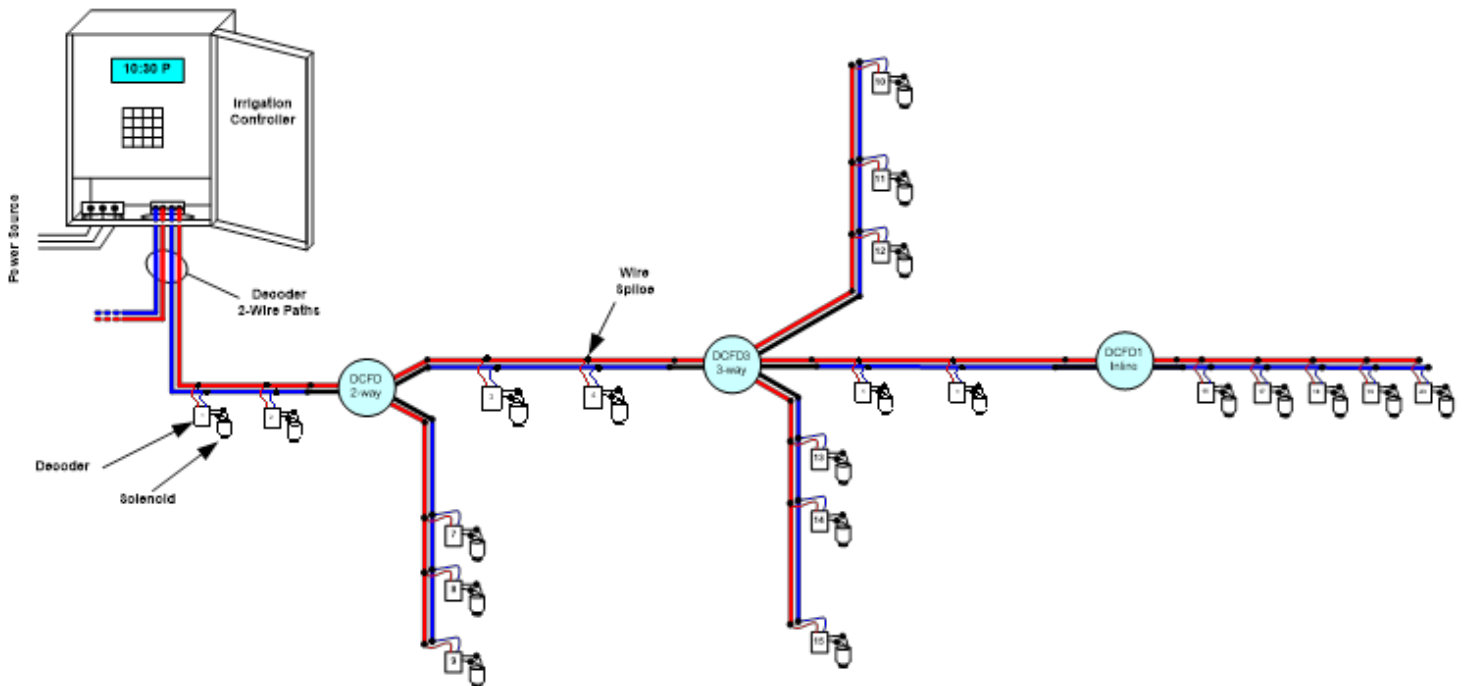
| Part Number | Quantity per case | Pounds Each | Box Dimensions |
|-------------|-------------------|-------------|----------------|
| 270DCFD1    | 5                 | 1.0         | 9" x 12" x 5"  |
| 270DCFD     |                   |             |                |
| 270DCFD3    |                   | 1.25        |                |



**Typical Specifications:**

The Paige Electric Decoder Cable Fuse Devices shall be installed at strategic locations of a Decoder/2-Wire/2-Core system such that it can isolate certain sections of cables for purposes of troubleshooting. The DCFD shall be installed inside an accessible irrigation valve box. Each location shall be clearly shown on the as built drawings. The splices for all connections shall be made using 3M model DBR/Y-6 (Paige Electric [270672](#)) waterproof connectors.

**Typical Installation:**



Note that the Decoder Cable Fuse Devices have been strategically installed at the points where cables split in different direction. Or it can be installed in long straight wire sections to isolate it in half. These are the obvious location where one would undo the splices when troubleshooting and trying to isolate the section of the system that is causing the fault.