

How many times have been working on a problem and got to the point where you thought it might be the cable that's causing the issue? I do and since I can't afford a Fluke, I use the next best thing....IOS! You first run the test and then you can view the results (two separate commands). Here's a an example of a bad cable run and and good one.

```
SW#test cable-diagnostics tdr interface gi1/0/3
Link state may be affected during TDR test
TDR test started on interface Gi1/0/3
A TDR test can take a few seconds to run on an interface
Use 'show cable-diagnostics tdr' to read the TDR results.
```

```
SW#show cable-diagnostics tdr int gi1/0/3
TDR test last run on: December 17 19:49:44
```

```
Interface Speed Local pair Pair length Remote pair Pair status
-----
Gi1/0/3 auto Pair A N/A Pair B Normal
Pair B N/A Pair A Normal
Pair C 1 +/- 2 meters Pair D Short
Pair D 1 +/- 2 meters Pair C Short
```

```
SW#test cable-diagnostics tdr interface gi2/0/24
TDR test started on interface Gi2/0/24
A TDR test can take a few seconds to run on an interface
Use 'show cable-diagnostics tdr' to read the TDR results.
```

```
SW#show cable-diagnostics tdr int gi2/0/24
TDR test last run on: December 17 19:50:17
```

```
Interface Speed Local pair Pair length Remote pair Pair status
-----
```

Gi2/0/24 1000M Pair A 0 +/- 4 meters Pair A Normal
Pair B 0 +/- 4 meters Pair B Normal
Pair C 0 +/- 4 meters Pair C Normal
Pair D 0 +/- 4 meters Pair D Normal