

Bent Pin and Shorted/Open Wire Analysis System

Automated Bent Pin Analysis - Highlights

Far Faster, More Accurate and Easier To Complete Than Manual Analysis

Omnicon's Bent Pin and Interconnection Analysis service uses proprietary software to convert signal and dimensional data to FMEA worksheets that need only mid-level and end-level failure effect descriptions. Software sets up worksheets for the least possible human effort.

Efficient

- Software supplies all low-level failure descriptions with meaningful text in a consistent style. Users can focus on signals and systems, not pins and wires.
- Each mid-level and end-level failure description is entered just once in a table with pre-assigned ID numbers. A description is automatically copied into the worksheet by entering its ID number in the worksheet.
- Mid-level and end-level failure descriptions can be grouped into logical categories in the table to make it easy to find the appropriate description for a failure mode. This arrangement also helps avoid multiple descriptions of the same thing.
- Keeping each unique failure description in a table makes it easy to review the unique failure modes and determine their consequences and severity.

Accurate

- User-supplied dimensional data is presented graphically to assure accuracy.
- Failure rates are individually computed and supplied for each failure mode.
- Failure modes include cases where a bent pin can realistically short to more than one pin at a time (or to the shell).

Interactive

- Changes to a connector's failure rate, exposure time, or open/shorted ratio instantly update the entire worksheet's failure rates and failure probabilities.
- Changes to any failure description are made in just one place and are instantly distributed throughout worksheet.

Self-Completing

- Software examines signal names and user-added "equivalent effect" tags that identify signals causing the same failure effects for the same failure mode.
- Users enter an "equivalent effect" signal failure description in the worksheet for the first occurrence only. Worksheet formulas copy the description to all other equivalent failure modes.
- Software recognizes redundant paths as part of self-completion and identifies latent failures. Software also enters "No effect" wherever possible.

Need more information?
Contact us for a more in-depth descriptive brochure.