



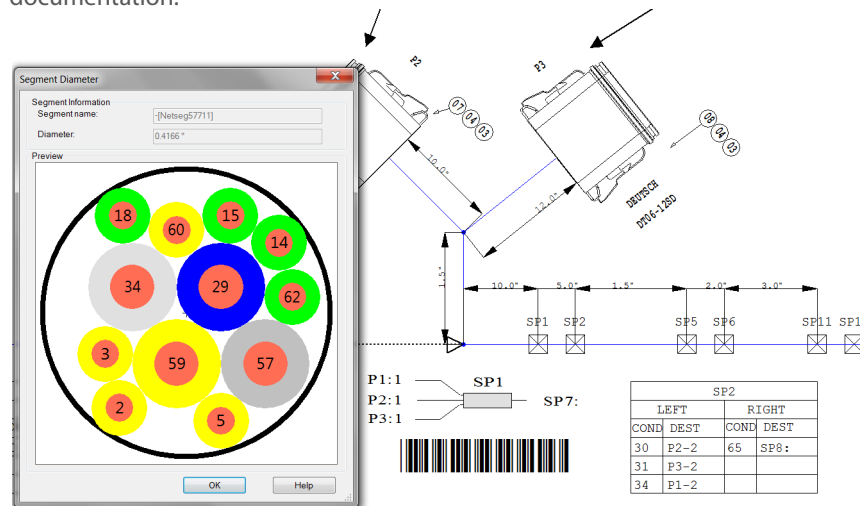
Harness Builder for E³.series Created for Harness Manufacturers

FEATURES / BENEFITS

- Define the manufacturing length on any segment in full-scale drawings
- Bill of Materials and wire schedules reflecting all changes and additions
- Dynamic dimensioning
- Online progressive connector table information
- Break down designs for ease of printing to a standard printer
- Addition of harness physical parts including shrink tubing and cable fasteners
- Output directly to DIT-MCO, CIRRIS, CAMI Research and DYNALAB test systems
- Effective splice documentation
- Automatically or manually assign wires directly in connection tables
- Addition of cable protection (e.g., shrink tube) and fasteners
- On-line cost estimate of parts used
- Long lead-time items flagged
- Assembly time calculated
- Direct link to crimping and terminating tools
- PDF data sheets hyperlinked from parts
- Easy addition of nail points and branch attributes
- Automated splice heat-shrink selection and documentation

Introduction

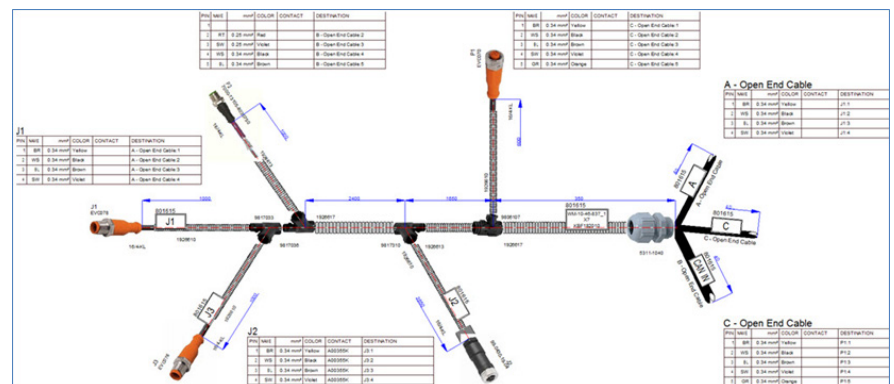
Harness Builder for E³.series supports the custom wire and cable harness market. This E³.series integrated module is designed to be used by harness manufacturers for the accurate quotation/estimate and full creation of nail-board/peg-board documentation.



Comprehensive intelligent library

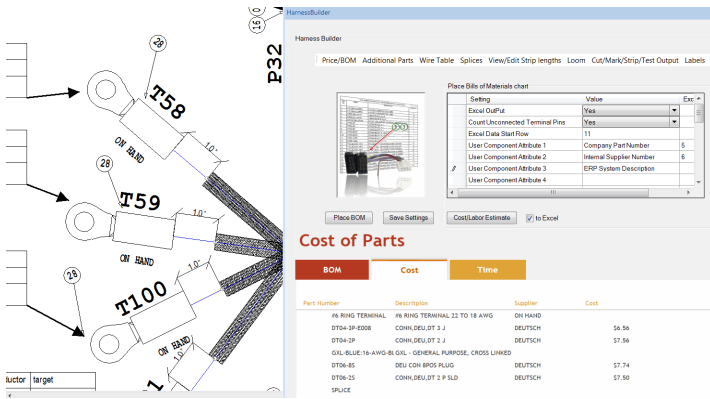
Harness Builder for E³.series comes with a comprehensive set of component libraries containing thousands of components. The intelligent parts make it possible for a layout builder to select and match wire sizing and optimize terminal selection.

Automatic creation of connector tables, manufacturing and displayed wire lengths are enabled, while applying logical stretching and compression routines. Rotation of complete cable branches is also supported. As with all other modules in the E³.series suite, the displayed view data of an object in a project is always consistent with the schematic and documents. Bill of materials and wire listings are always up to date.



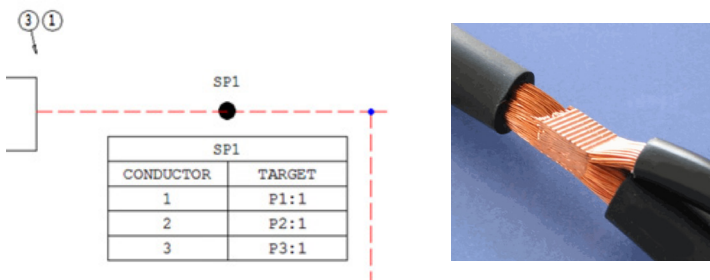
Accurate cost estimates

Select and place connectors, terminals, wires and cables and have Harness Builder for E³.series deliver a detailed documented list for design time, while highlighting long lead-time items. Export a user-defined comprehensive quotation for the total cost to build. Parts are also hyperlinked to tooling parts and stockroom locations can easily be added.



Splice documentation for sonic welders

Splicing is recognized as an integral part of the harness and manufacture creation. Harness Builder for E³.series will provide direct output including barcodes for the ultrasonic welders. Left and right side welds are thoroughly detailed with the correct size heat-shrink selected for the fabricated weld.



[1 (Black/AWG 18)] - A-A — SP01 — [2 (Black/AWG 18)] - C-A
 [3 (Black/AWG 18)] - B-A

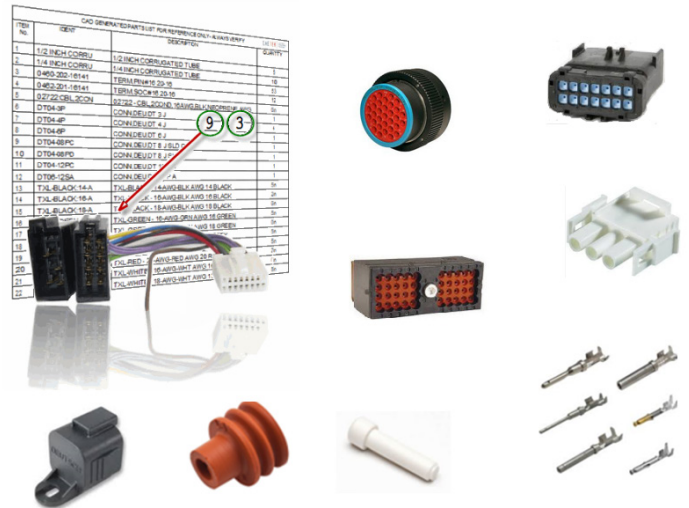


Video help

Extensive videos are available directly from within Harness Builder for E³.series detailing tasks to create the harness. These videos guide the user through the steps required to estimate, build and output the harness.

Intelligent bill of materials

Components, wires, cables, looming parts and symbols are linked to give direct BOM output and item definition that can be placed on the drawing sheet or exported directly to a user-defined Excel file. Wires, cables and loom are quantified based on length to provide accurate results. Additional parts to the connectors are associated and easy to add to the BOM without searching through OEM or supplier documentation for part numbers. Parts are also linked to PDF documentation for information about sizing and terminal insertion.



Direct import/export from/to manufacturing

Once a harness is created within Harness Builder for E³.series it can be directly exported to wire cutting and labeling machines from such vendors as Schleuniger, Komax and Argus. The labels can also be printed on all popular label machines such as Brady, Brother and Hewlett Packard. Output user format is easy to create and deploy. An Excel from/to list can be used to directly import the wiring list. Parts will be automatically selected from the library and wires and cables attached. Design rule checking will notify the user if the correct terminal pin to fit the connector has been selected.

