



HarnWare V6 Harness Design Software

COMPUTER-AIDED ELECTRICAL WIRING HARNESS
DESIGN SOFTWARE



Introduction

A new version of TE Connectivity's (TE's) popular harness design software has been engineered using the latest Microsoft programming tools to offer improvements in performance and enhance the user interface. Additional improvements include new product ranges added to the database, which now includes over 100,000 TE products and several thousand standard military connectors. The HarnWare design wizard also has a modern appearance and includes hyperlinks to relevant product information.



The HarnWare computer-aided design package enables users to produce high-quality wiring harness assembly drawings, parts lists/bill of materials (BOM), labor estimates, RoHS compliance codes for each component, cable cross-section designs, connector planform drawings, wiring schematics and schedules. Data can also be exported in a variety of formats to allow transfer of information into other computer systems.



TE's extensive product ranges and systems approach to harness design provide complete harness solutions to help meet the requirements of most markets, especially demanding applications in the defence, rail, aerospace, naval and motor sport industries.

The HarnWare software uses a drag and drop drawing interface that enables the designer to rapidly draw and designate the overall parameters of the harness. This drawing combines with the HarnWare software to guide the designer through a series of design operations. The harness system can be specified and a range of fully compatible components can be selected.



HarnWare V6 Harness Design Software

FEATURES

- Design Comparisons
- Updated Codes of Practice (COP) Listings
- Materials and Equipment Listing
- Extended User Parts Library Editable by Users
- Data Import Option from Microsoft Excel Software
- Easy Export of Parts Listing
- Create Shape Function
- Fiber Optic Module including PRO BEAM Connectors
- Database File Path Selection for Drawing Translator, User Parts Library and Weights
- Users can Supplement the Databases of Preferred Parts by Adding Other Component Data into the HarnWare User Parts Library
- BOM Export Format Directly into Microsoft Excel Software
- Reliability Analysis

NEW PRODUCTS INCLUDED IN VERSION 6

- Micro Heat Shrink Molded Parts
- Spin-Lock Adaptors
- STXR Adaptors
- ADK Rectangular Backshells
- SolderTacts Contact Devices
- RF Connectors including TNC, BNC and N Types
- GPR Rectangular Connectors
- AMPLIMITE Rectangular Connectors
- VG95218 Pt 28 Multicore Cables
- RG Coaxial Cables
- D-SCE Range of Identification Sleeves
- RT-780 Heat Shrink Tubing
- POLAMCO Adaptors (Series 60 and BTH range)
- Zerohal ZH150 Tubing
- High Flex Power Cables FDR 25 and FDR25 SJ

HARNWARE V6

TE's extensive product ranges and systems approach to harness design enable the company to provide complete harness solutions to meet the requirements of most markets, especially demanding applications in the defence, rail, aerospace, naval and motor sport industries. Since the introduction of the HarnWare software V1 in December 1995, many key changes and new features have been introduced. Version 6 of the software contains design modules for heat shrink sealed systems, conduit systems, MIL-STD-1553 data bus and fiber optical assemblies. The new V6 version gives a smarter, faster, better solution for harness design and component selection.

SYSTEM SPECIFICATIONS

Microsoft Visio: For HarnWare software V6, Visio 2010, 2013, 2016 (365) and 2019 software can be used. Both the 32 bit and 64 bit versions of Visio are compatible with HarnWare software Version 6.2 and above.

Microsoft Windows: HarnWare software is compatible with 32 bit and 64 bit versions of Windows 7, Windows 8.1 and Windows 10 operating systems.

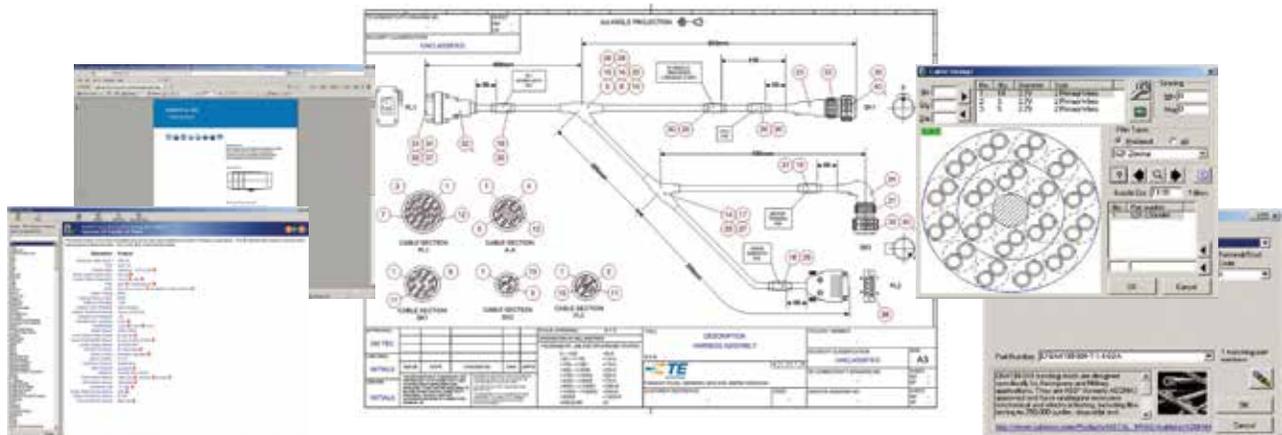
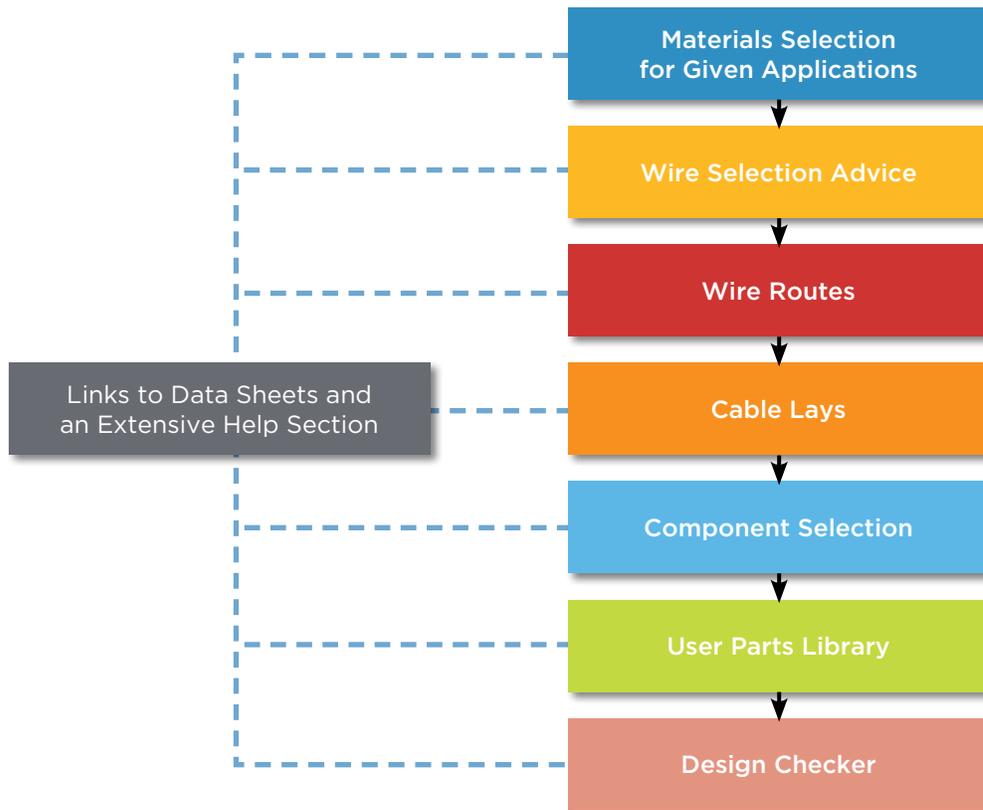
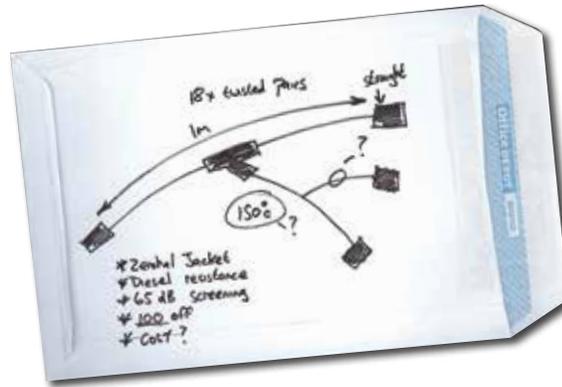
BENEFITS

- More detailed and accurate design with the use of preferred parts, helping provide best delivery and price
- Designs and quotations produced up to 20 times faster
- Promotes a systems approach for choosing components, materials, adhesives, etc to help confirm parts are compatible with the intended service conditions and with mating parts
- More cost effective designs, minimised transcription errors and a more disciplined approach to harness design



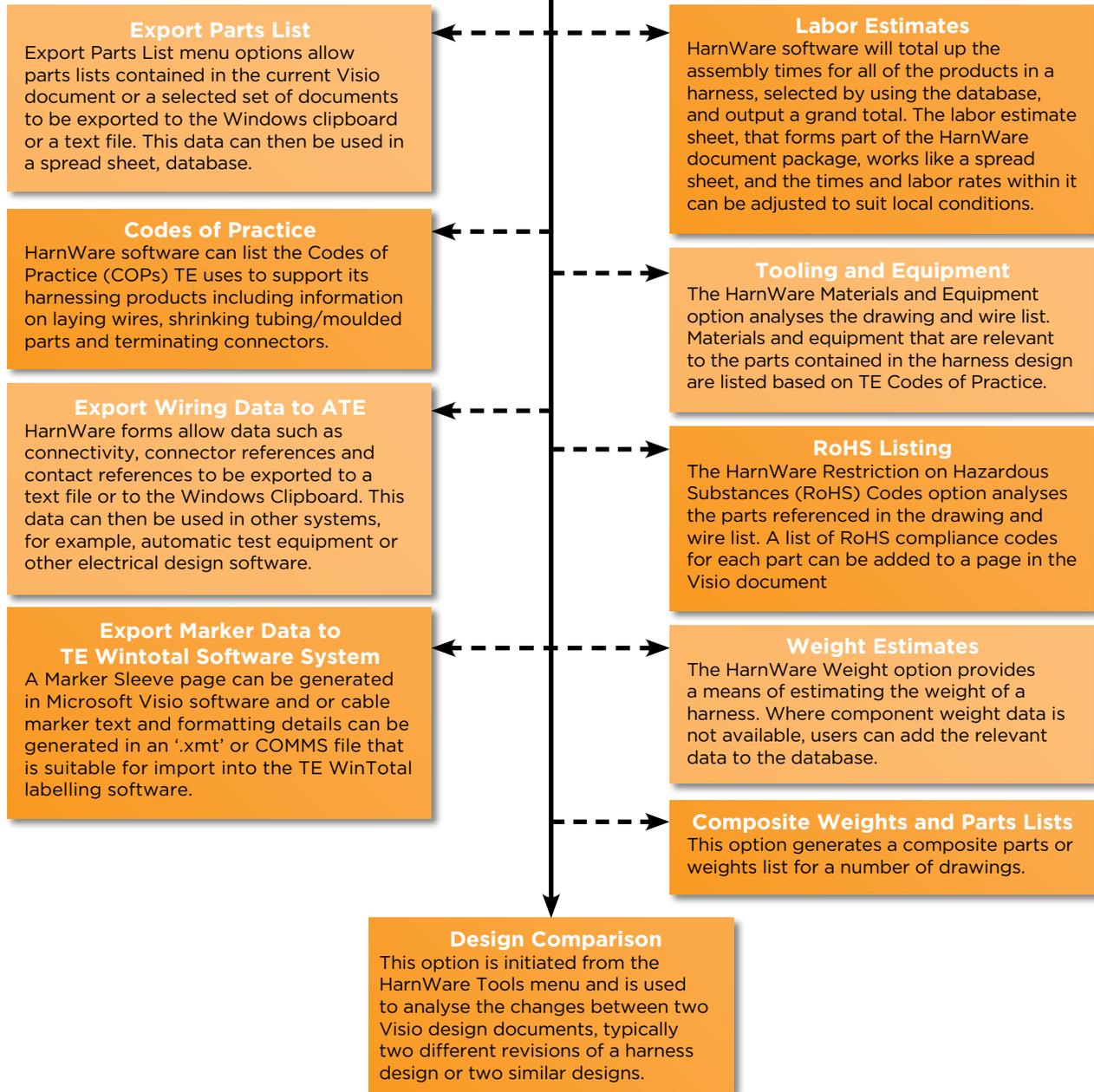
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From Initial Concept



HarnWare V6 Harness Design Software

To Full Manufacturing Documentation



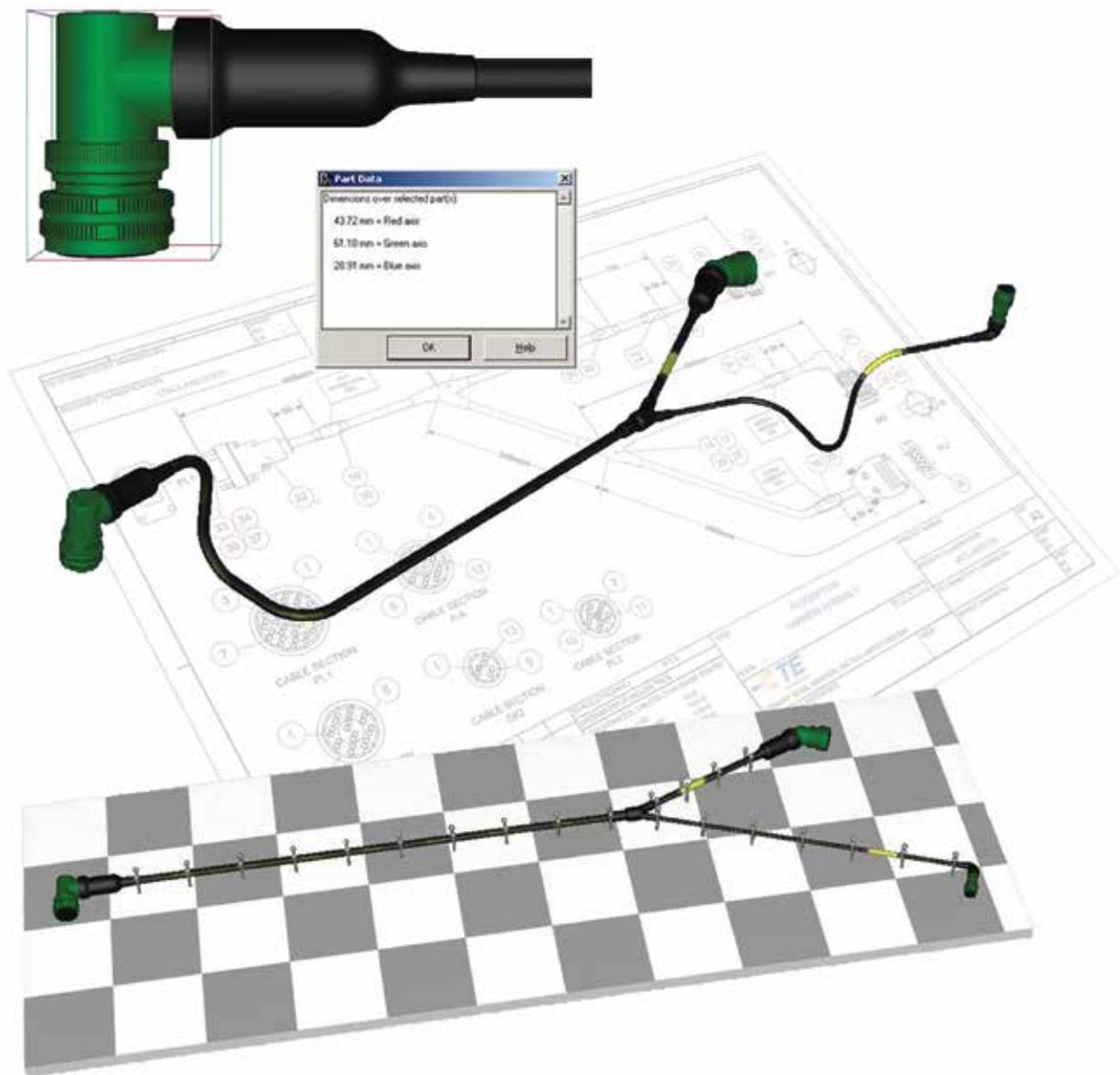
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3D Modeling and Lay-up Boards

The HarnVis 3D harness design visualisation system offers automatic generation of to-scale 3D models of wiring harnesses and components. These 3D models provide “virtual prototypes” of harnesses allowing the user to see the harness with lengths, diameters and parts shown to-scale. By simply clicking on a part, the user can access such data as part numbers, materials, finishes, adhesives, etc.

These “virtual prototypes” help reduce the potential for errors, harness lay-up boards (also known as nail, form and peg boards) can be modelled and pegs can be automatically positioned along the harness legs. When a long harness leg makes it necessary, legs can be bent to fit a lay-up board.

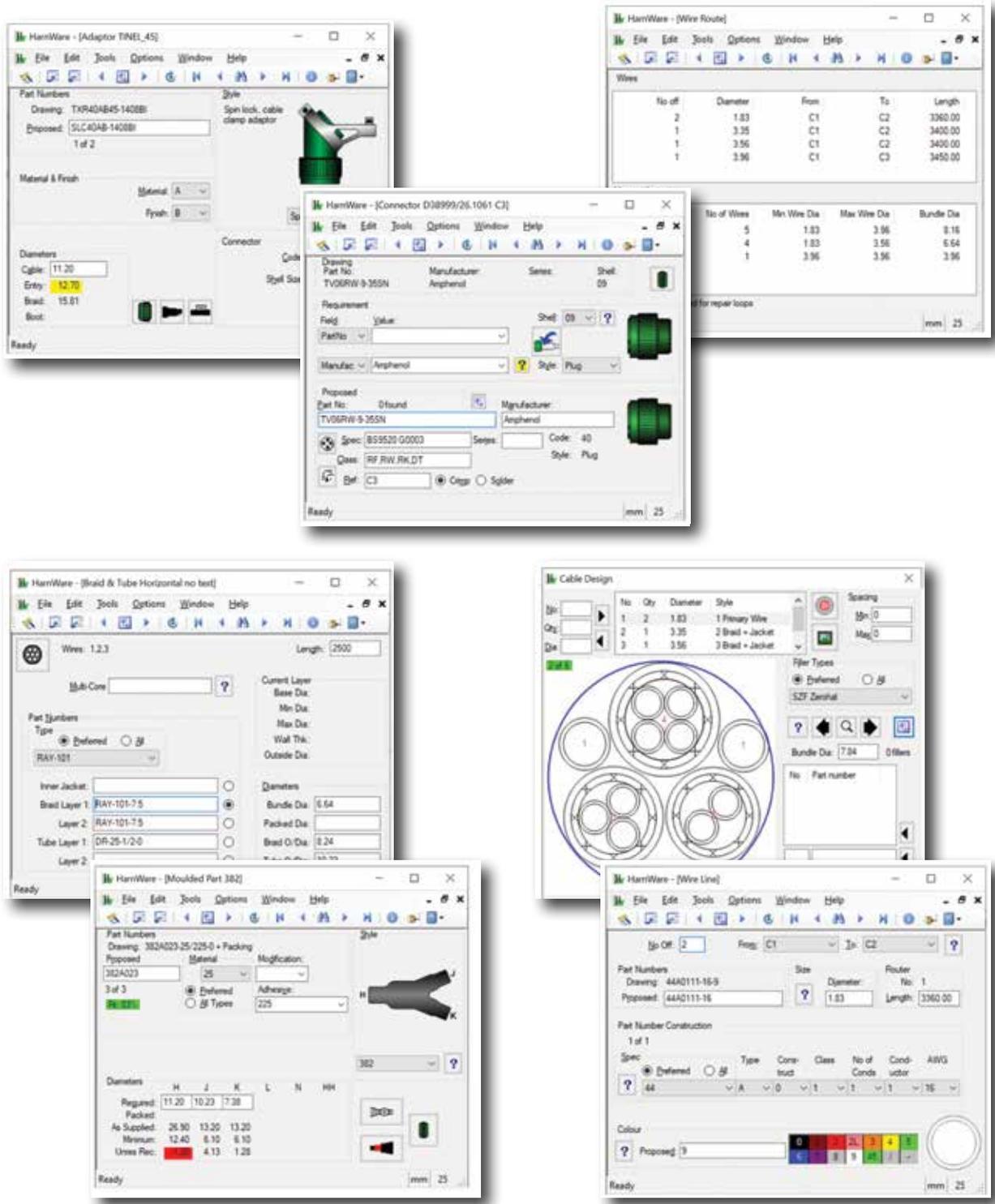
3D models of harnesses and of many TE parts can be exported from the HarnVis system in the form of IGES files for use in other CAD systems.



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HarnWare V6 User Friendly Forms

The forms for selecting the wide range of TE components are clear and easy to use with many links to data sheets and design help topics.



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5-1773462-2 02/21

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TE Connectivity
Aerospace, Defense & Marine
2900 Fulling Mill Road
Middletown, PA 17057