



## Wire Harness Expert

### Cable Harness and Route Design

- Designing electrical harnesses (2D) including lengths, cross-sections, and routing
- Defining mounting points, penetrations, connectors, covers, ducts, and cable trays
- Drawing connection diagrams (topology, branch points, connectors)
- Designing cable routings in accordance with mechanical and thermal constraints

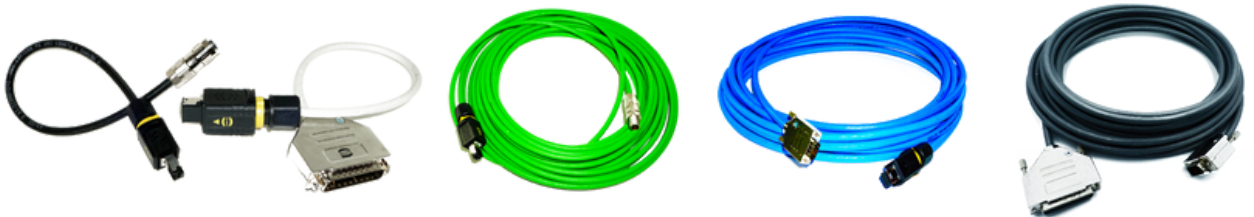
### Technical Documentation and Specifications

- Creating electrical and logical diagrams for harnesses (including schematic and functional diagrams)
- Creating exploded drawings (2D harness drawings, nailboards)
- Generating wire lists, connector lists, pinouts, cross-section and length tables
- Creating production documentation: BOMs, wire cut lists, assembly instructions
- Creating documentation compliant with standards (e.g., IPC/WHMA-A-620, ISO 60617)
- Creating a Datasheet/Datasheet for the harness.

### Selecting components and materials

- Selecting cables, connectors, sleeves, covers, corrugated tubes, tapes, ties, and sleeves
- Selecting connectors (e.g., TE, Molex, Delphi, JST), pins, terminals, and surge protectors
- Considering environmental requirements (moisture, temperature, oil, vibration)
- Calculating and quoting the harness production cost

#### • Data Transmission Wire Harnesses - Automotive Certificate



Resistant to abrasion and temperature differences, Halogen-free, Not resistant to toxic fumes, Not easily flammable

#### • Antenna Wire Harnesses - Automotive Certificate



Compatible with **GPS** (1,6GHz), **LTE** (2,1GHz), **WLAN** (2,4GHz & 5GHz) and frequencies **Analog Radio**



#### **Braid + Flexibility**

The use of a braid and single strands protects against abrasion and gives flexibility



Thanks to the **Selected Connectors**, it is possible to perfectly match the device



#### **Handle + Tightness**

Hundreds of Fast Connections Safe and secure



#### **Labeling**

Markers on every single wire

