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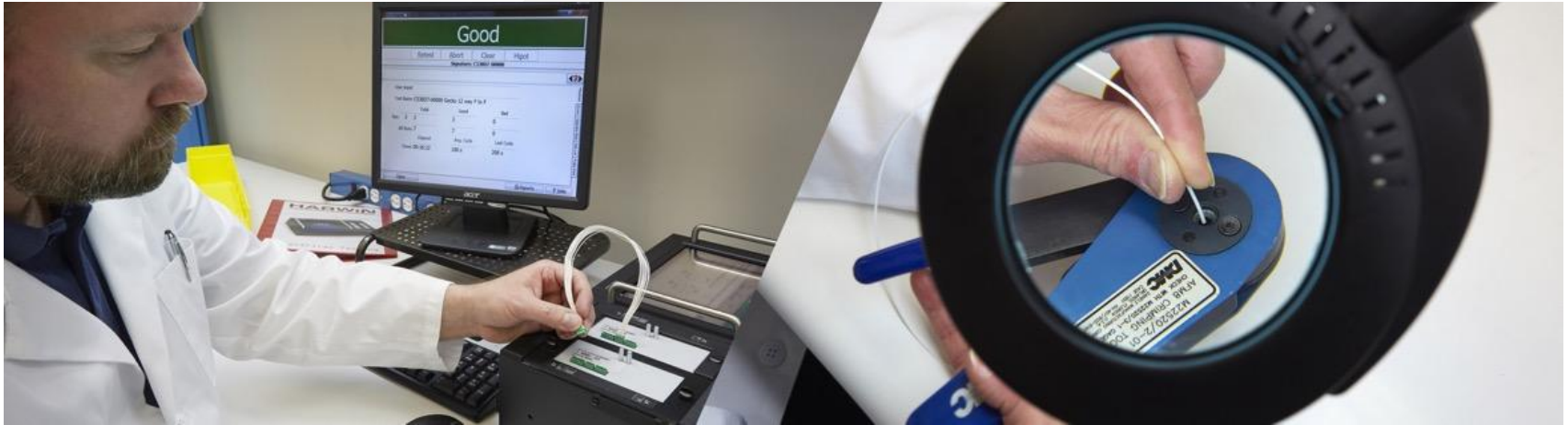
HARWIN

CABLE PRODUCTS



CABLE PRODUCTS FROM HARWIN

INTRODUCTION



Making full cable assemblies from start to finish using the individual contacts and housings can be tricky, time consuming and expensive. Here at Harwin we are fully equipped to help you with this process – or handle it for you completely!

This training module will cover all the different services that Harwin can offer to complete your cable assembly.

CABLE PRODUCTS FROM HARWIN

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We have a lot of options to incorporate into your cable assemblies. To help you navigate through this module, click on the item above to jump to the featured service.

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PRE-CABLED CONTACTS



The most basic level of ready-made cable assemblies, these are simply the individual contacts fitted with an appropriate wire. The assembly may be single or double ended, and come in a choice of colour and length. You will need to purchase the connector housings and insertion tooling separately. It does not eliminate all your processes, but does eliminate the hardest operation and most expensive tooling – crimping.

We stock some options at pre-set lengths and colours for you to purchase off-the-shelf – [check the website](#) or [contact us](#) for help.

CABLE PRODUCTS FROM HARWIN

READY-MADE BASIC CABLE ASSEMBLIES



We have a wide selection of ready-made cable assemblies, and these options are being added to regularly. Choices include single and double ended, in lengths of 150/300/450mm (6, 12 and 18"). Typically the wire color will be white for double ended, multi-color for single ended (although there are some exceptions).

These items can be found [on the website](#) under their applicable product family, choose "Cable Assemblies" in the second layer of options.

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BACKPOTTING



All connectors with extended rear walls will also be backpotted as standard. This assists with strain relief – read more on our popular [“What is backpotting”](#) article.

Backpotting walls are available on our [High-Reliability](#) ranges of Gecko and M300, and selected [Extended Wall Datamate-J-Tek](#) connectors.

Backpotting can also be accommodated on certain products without walls by adding temporary dams – [ask our Experts](#) for assistance.

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BACKSHELLS OR HOODS



Some connectors also have the option of hoods or backshells, which can be fitted for added strain relief or mechanical protection. Available with:

- Gecko-SL – metal backshells (can be fitted after cable assembly)
- Datamate J-Tek – kits with plastic hoods
- Datamate J-Tek – metal backshells (must be fitted before assembly)
- Datamate L-Tek – plastic hoods for double row female receptacle cable connectors

The Datamate and Gecko metal backshells can also be applied to Datamate Mix-Tek and selected Gecko-MT cable assemblies respectively.

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FULL CABLE ASSEMBLY SHIELDING AND PROTECTION



In combination with the metal backshells, adding metal braiding along the length of the cable assembly completely shields the whole product. We can supply a fully finished cable assembly with the shielding braid fixed in place with Band-It ties. For the Gecko-SL product range, we have even developed a standard part numbering system for these options.

Alternatively, plastic braiding or heatshrink provides a level of protection to the cable bundle – [ask for further information](#) on these options.

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TWISTED PAIRS



This cable style is very popular – for some customers, it is now the default requirement. Harwin uses two cable twist pitches (seen in the image as red/white and green/white), and alternates these two across the connector. This helps combat crosstalk across adjacent pairs of wires. We have developed a standard part numbering system for these options within the Gecko Latch and Gecko-SL product ranges.

For maximum EMI defense, Gecko-SL includes a range incorporating both twisted and shielded cables, made on demand.

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LABELLING AND CABLE MANAGEMENT

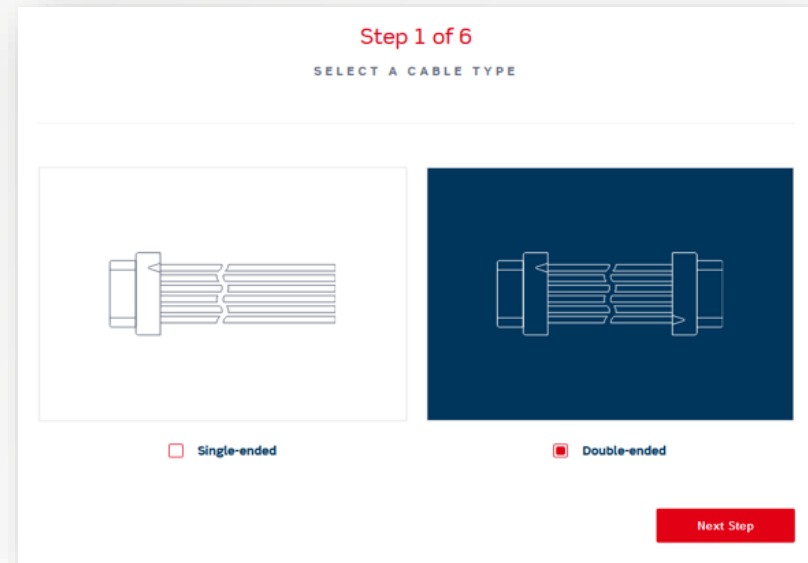


To finish off your cable assembly, Harwin can also offer custom labelling, even incorporating a logo (space allowing).

Managing longer cable bundles can be helped with additional cable ties or heatshrink to maintain a tidy wiring loom.

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CABLE GENERATOR

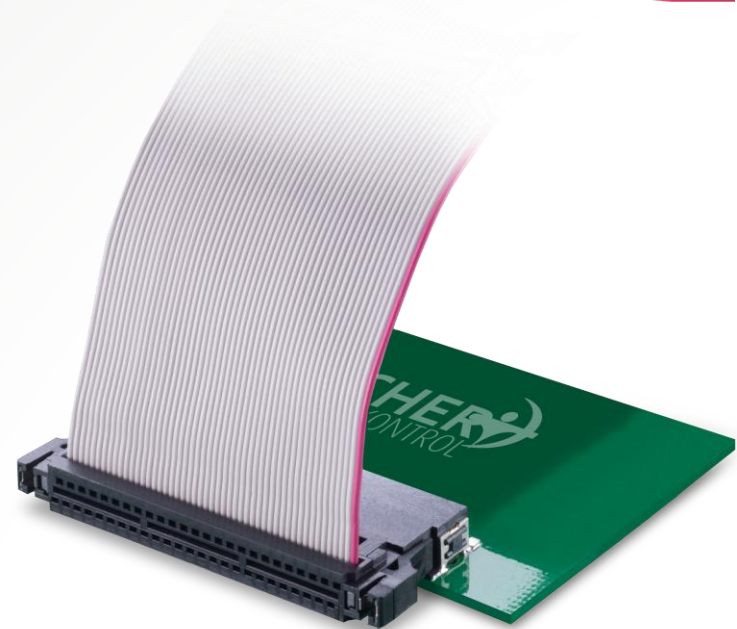
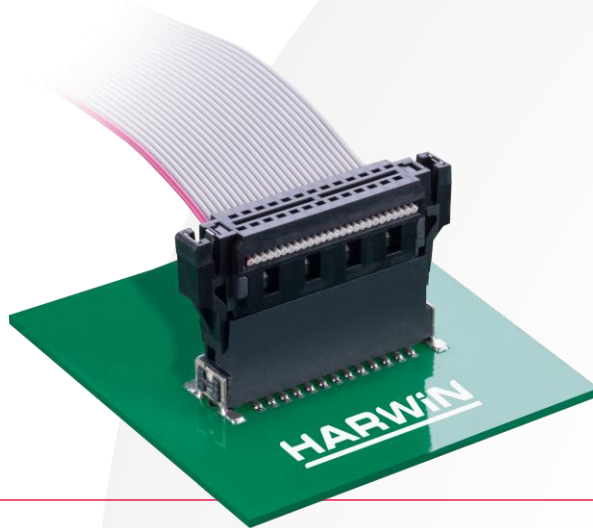


Harwin's [Cable Generator](#) is designed to help you through the process of specifying a variant cable assembly, step-by-step. This easy-to-use builder will help you define cable styles / sizes and the Harwin connector you need, and send your information directly to us to arrange a quotation.

Already included are many variations of Gecko, Datamate and M300 connectors, with power and coax as well as signal. Further options often in development, so check back later for future additions. If you can't specify the cable assembly you need, just [talk to our Experts](#).

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RIBBON CABLE ASSEMBLIES – IDC CONNECTORS



[Kontrol](#) and [Archer](#) ranges both include ready-made cable assemblies, constructed with IDC connectors and ribbon cable. The cable is UL rated with 30 AWG cores. These assemblies are available off-the shelf in 150mm, and some selections are also available from stock in 300mm. Other cable lengths can be supplied on request.

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CABLE ASSEMBLIES FOR PCB CONNECTORS



We can also help with cabling on our [PCB Connector](#) ranges. As crimping the smaller contacts in the [M30 \(1.25mm pitch\)](#) and [M40 \(1mm pitch\)](#) ranges can be awkward and tricky, we offer pre-cabled contacts on red wire in 150 and 300mm lengths. These are easy to assemble into their applicable housings, and require no tooling for this process. For [M20 \(2.54mm pitch\)](#) and [M22 \(2mm pitch\)](#), we can help with your cable assembly made-to-order.

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CUSTOMIZED CABLE ASSEMBLIES



We're happy to help your custom cable connection become a reality.

The above design incorporated many of the different options we can offer - Datamate J-Tek with metal backshells connecting to three Gecko-SL with metal backshells. Under the multi-color heatshrink are fully braided cable bundles for a completely shielded wiring harness.

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HOW CAN WE HELP?

- Build to your Datasheet
- Prototype quantities
- 100% Inspect and Test
- Trained to IPC-620
- Advice from Experts



We want to help your cable assembly using Harwin connectors to become a reality. [Contact us](#) today with your requirements, and we'll do our best to help you through the process.

LEARN MORE ABOUT OUR OTHER RANGES



HIGH RELIABILITY
WITH SUPREME
PERFORMANCE



DEPENDABLE
CONNECTIVITY
ACROSS THE BOARD



INNOVATIVE
DESIGNS FOR
EASY ASSEMBLY

Find out more about our full range
of inter-connection solutions at
www.harwin.com

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GET HELP FROM A HARWIN EXPERT

Our experts are specialists in their field with many years of experience in their respective roles and industries.

Find an expert that can help you with your enquiry.

[Click Here >>](#)

CAD Models and Evaluation Samples also available at www.harwin.com





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