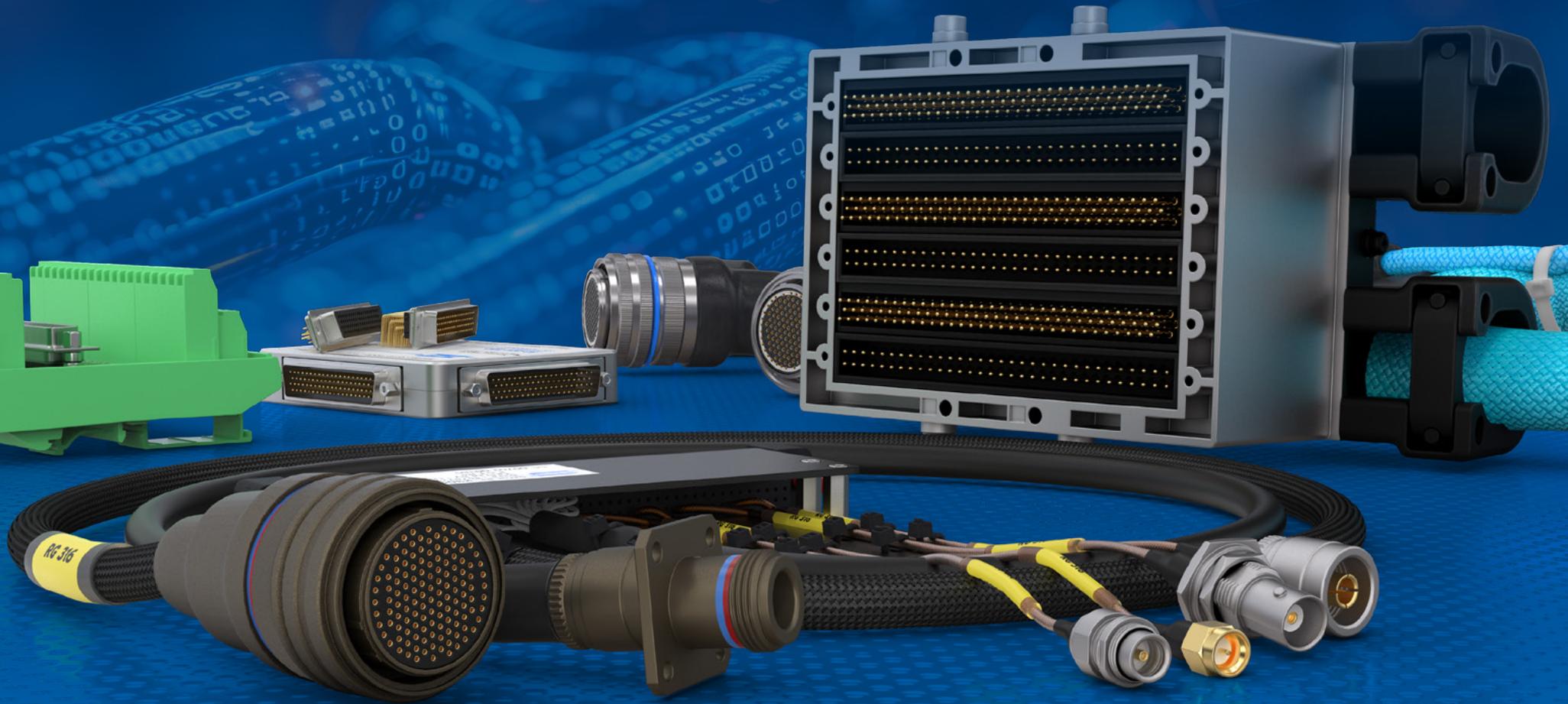


# Connectivity Solutions...



...from Pickering Connect



[pickeringconnect.com](http://pickeringconnect.com)

# Versatile **Custom Connection Solutions** Engineered for Diverse Industries

Pickering Connect has been trusted by industry leaders worldwide for over 20 years to deliver precision-engineered cable assemblies and connectivity solutions — with no minimum order quantity. We specialize in complex, highly customized cables, combining advanced automation with skilled hand craftsmanship.

Our proprietary technologies, such as the **FREE Cable Design Tool** and **Cable Build Assistant**, streamline design, improve production speed and reliability, and enable partial automation even for single-unit orders. Every cable is designed, built, and tested in-house, ensuring exceptional reliability, flexibility, and speed.

We serve a diverse range of industries, including automotive, aerospace, telecommunications, medical, and oil & gas. On the following pages, you'll see real project examples and our advanced production and testing facilities — proof of our commitment to quality, innovation, and dependable results.

- 20+ years of experience in cable manufacturing
- No minimum order quantity – from one to thousands
- Specializing in complex cable assemblies
- Designed, built, and tested entirely in-house
- Blending the precision of automation with skilled hand craftsmanship
- Seamless design experience with our **FREE Cable Design Tool**
- Faster builds—even from single units—thanks to our Cable Build Assistant
- Built to IPC/WHMA-A-620 E Class 2 standard (Class 3 on request)
- RoHS & REACH compliant
- Robust 3-year warranty



# Custom Cable Solutions Tailored to Your Needs

From precision wire processing to fully tested, ready-to-install cable assemblies, we handle every stage of the build with expertise and care. Whether you need a high-performance test system, mission-critical harnesses for demanding environments, or unique one-off prototypes, we create solutions engineered to your exact specifications – delivering reliability, performance, and peace of mind every time.

## Wire Processing

- **Automated Processing:** Wire cutting, stripping, crimping, double crimping, with CFA (crimp force analyzer) control
- **Semi-automatic Multiconductor Processing:** Stripping with automatic cut detection, multi-sequential stripping, and one-process strip and crimp with CFA
- **Wire termination:** Soldering, crimping, and wire wrapping
- **Marking technology:** Heat-shrinkable label printing, laser marking
- **Cable lacing**



# Custom Cable Solutions Tailored to Your Needs

## Cable Assembly Testing

Every cable is thoroughly tested, including 4-wire measurements, up to 2 KV HiPot, and various other tests tailored to client specifications

We also offer advanced high-voltage testing capabilities, including up to 15KV HiPot with 10 TOhm insulation resistance measurement, dielectric withstand (DW), and insulation resistance (IR) testing. We can also detect fault locations for opens and shorts, and verify built-in components to ensure full cable functionality



# Custom Cable Solutions Tailored to Your Needs

## Custom Cables

We offer the option to customize single or multi-core cables and their various features:

- **Custom single-core conductors:** Available with insulation materials like PTFE, PFA, PVC, and more, in single or double colors, with fully customizable stranding options
- **Custom multi-core cables:** Specify twist rate per meter and shielding—choose foil, braided, or both to match your specifications

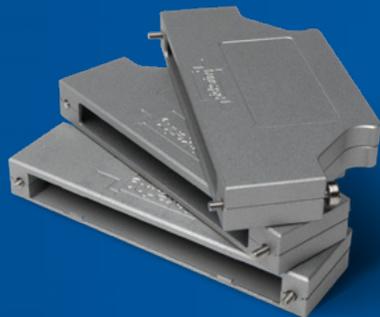


# Precision **Custom** Backshells, Advanced Mechanical & PCB Capabilities

## Custom Backshells & Mechanical Capabilities

Thanks to our in-house CNC department, we offer fully customized aluminum backshells and other low-volume milled aluminum parts tailored to your design:

- **Aluminum Anodized Backshells:** We provide CNC or laser engraving, color anodization for aesthetic finishes, and custom stainless steel screw-locks for larger orders
- **Diecast Backshells:** For large quantity orders (500+), we can offer affordable Nickel-plated sandblasted Zinc Alloy backshells
- **Advanced 3D printing capabilities:** Including industrial-grade FDM materials (PAHT-CF, PPA-CF, PPS-CF, PA6-CF/GF) and resin printing from standard resins to custom resins with specialized additives tailored exactly to your needs
- **Other Solutions:** Front panels & box-builds, potting and overmolding capabilities

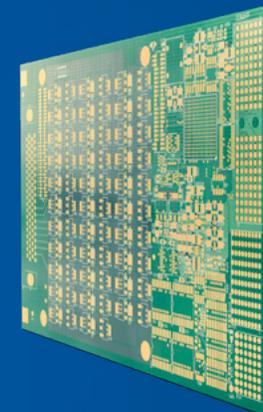


## PCB Capabilities

Thanks to our own PCB department, we're able to seamlessly integrate PCB and cable components. For example, we can adapt connectors designed for circuit boards into fully functional cable connectors or develop specialized connectors tailored to specific needs.

We also offer high-precision automated surface-mount component placement through our SMT department, and automated selective soldering for THT components — ideal for complex or high-reliability assemblies.

Our experts also have extensive experience with designs involving flexible PCBs, controlled impedance layouts, and high-speed differential pair routing.



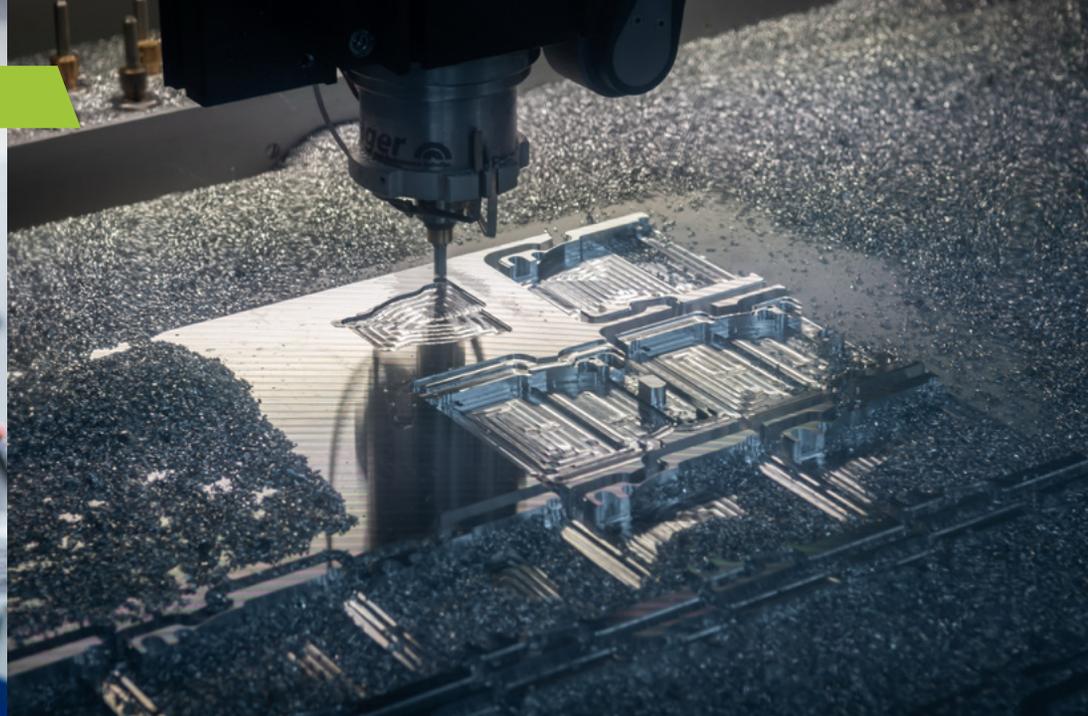
# Connection Solutions Built on Quality, Innovation, and Reliability

On the following pages, you'll find real examples of our work, along with images of our advanced production and testing facilities. Every project we undertake is built on quality, innovation, and reliability – giving you the confidence that your connection needs are in expert hands.

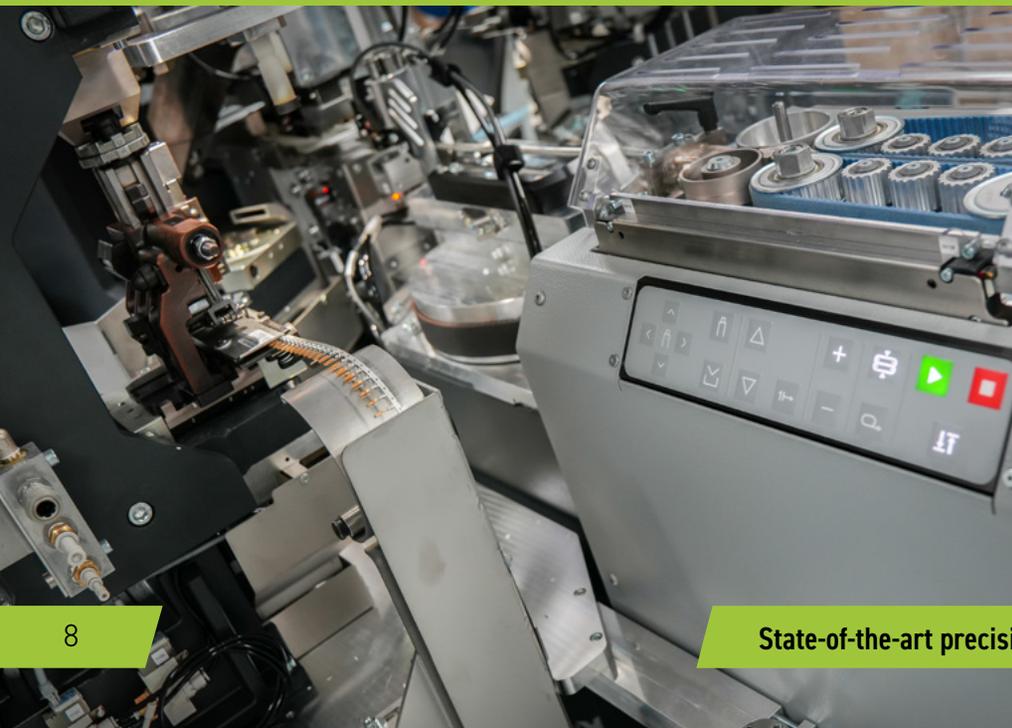


Our CNC department enables us to produce fully customized aluminum backshells to meet your design requirements

High-precision CNC machining with Datron mills for custom aluminum components



## In-house Manufacturing and Test



State-of-the-art precision crimping with Komax Alpha 520 and Delta 240 for consistent, high-quality terminations



Custom cable harness with a modular MPX connector and precision CNC-machined aluminum backshells



# Custom Connection Solutions



Custom rack-mounted test harness and cable assembly with Positronic Scorpion connectors



# Design Custom Cables Faster with our **Cable Design Tool**

Design your custom cable effortlessly with our **FREE, Cable Design Tool**. It's the fastest, easiest way to go from concept to finished product. Join users across the industry who successfully bring their projects to life with it—**over 1000 unique cable designs are created each year using our tool**.

## Features overview:

- A truly intuitive and visual way to design cable assemblies
- Easily create, save, and organize your projects
- Share and collaborate on projects with colleagues
- Use our library or create your own cable templates
- Access a vast library of connectors, wires, and backshells with live stock info
- Add your own connectors and wires
- Generate detailed PDF documentation with a single click
- Chat directly with our cable technicians
- No installation needed—runs in your browser
- And much more

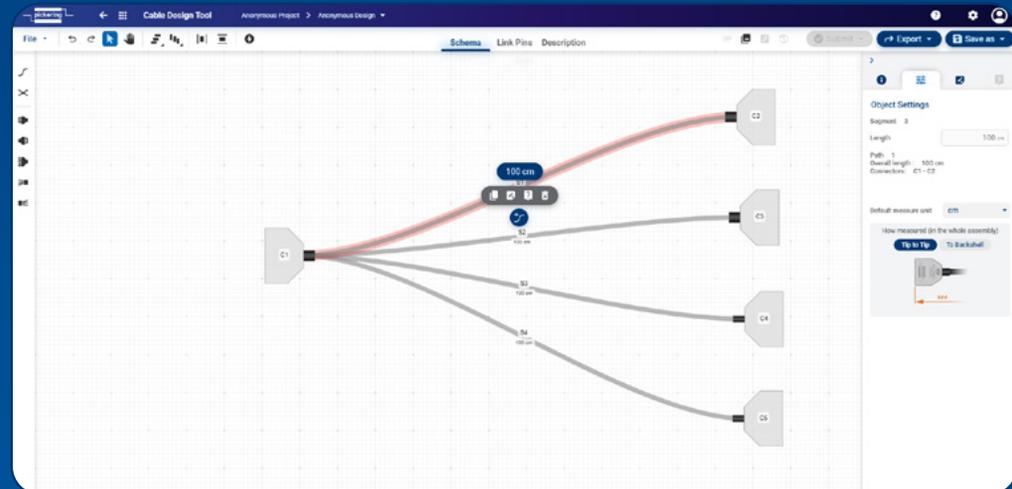
**Projects created in the Cable Design Tool are yours to use freely, with no obligation to order from us.**



# Five Steps to Designing a Cable Assembly using the Cable Design Tool

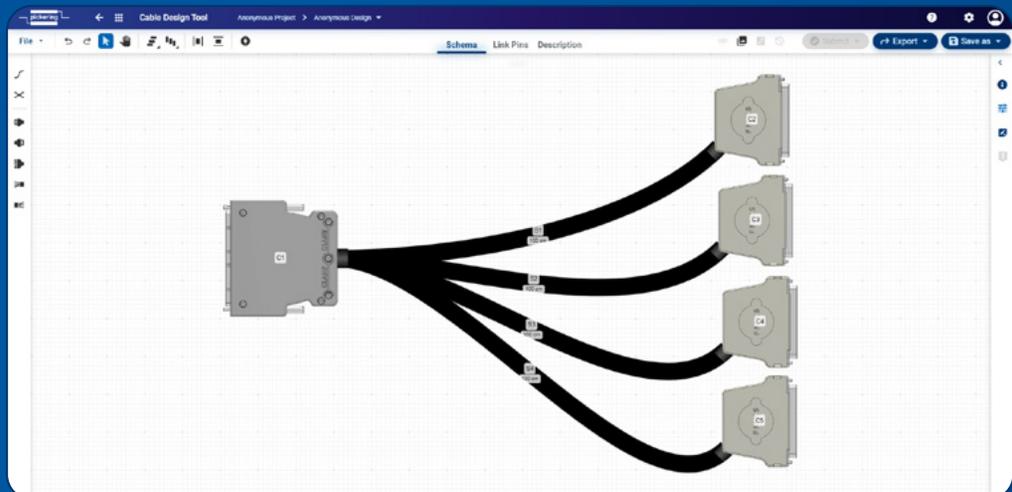
## Step 1

Determine the basic layout of the cable assembly by adding generic connectors and the paths between them. Alternatively select a standard cable assembly from the integral library to use as a template.



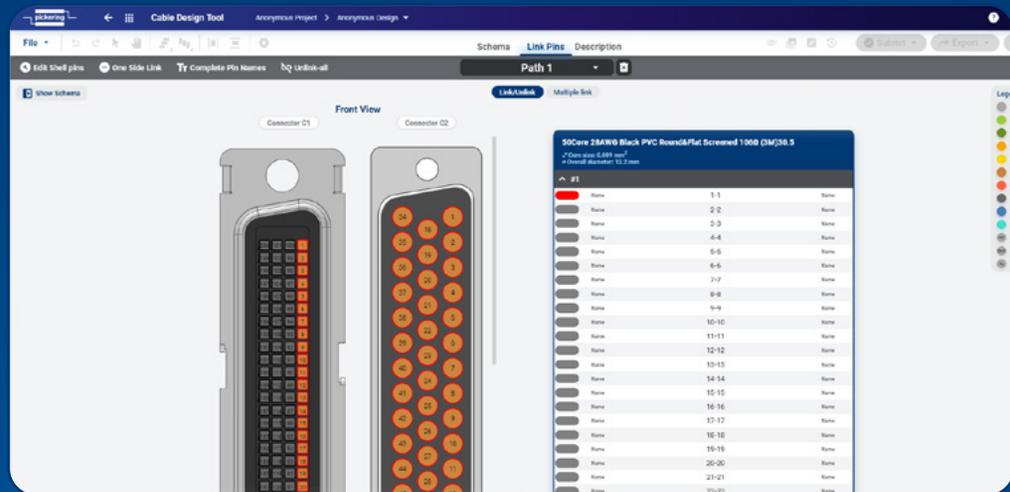
## Step 2

The required connectors and interconnecting wire types can then be selected from the comprehensive libraries supplied.



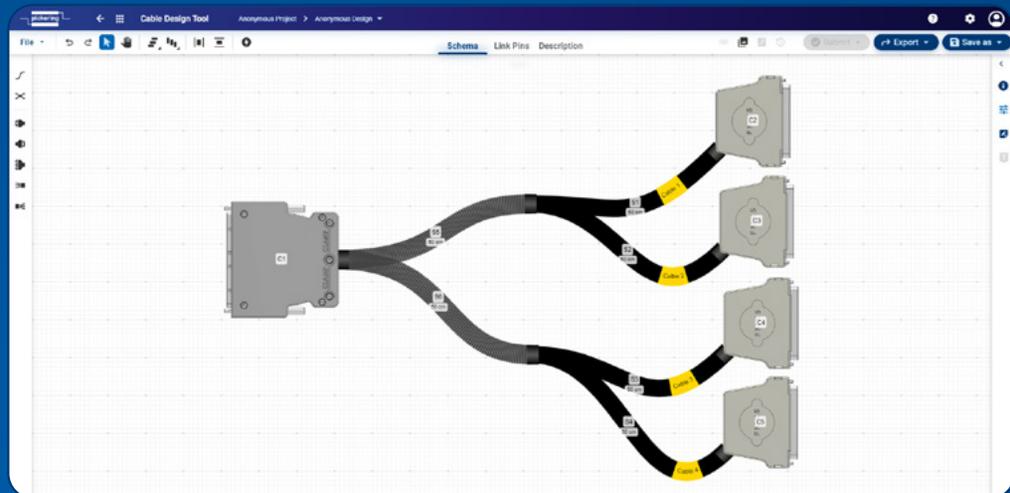
### Step 3

The connector pins at the end of each path are then linked. The Autolink feature can be used to automatically link concurrent pins.



### Step 4

Sleeving, Screening, Path Bundling and Labels can then be added to the cable assembly as required.



### Step 5

Simply submit the completed cable assembly design to Pickering and we will provide pricing.

# Our Custom Cable Order Process

At Pickering Connect, we want the ordering process to be simple and efficient, from initial design to final delivery. Here's how it works:

## 1. Cable Assembly Design

Use our **FREE Cable Design Tool** to easily draw your design or send it in your preferred format. If you need help using the tool, just reach out through the built-in chat, and our technicians will help.

## 2. Design Review and Quote

Once you have your design ready, our technicians will review your project for manufacturability, performance, and cost-efficiency. After the review, we'll provide you with a detailed quote, giving you a clear understanding of pricing before moving forward.

## 3. Manufacturing and Shipping

After you approve the project, we will manufacture the cable and ship it to you, anywhere in the world.



# About Pickering Connect

Our story began in 1968 with Pickering Electronics, the first company in the Pickering Group, specializing in high-quality reed relays. In 1988, the group expanded with Pickering Interfaces, providing custom and commercial switching and simulation solutions for the Test & Measurement industry.

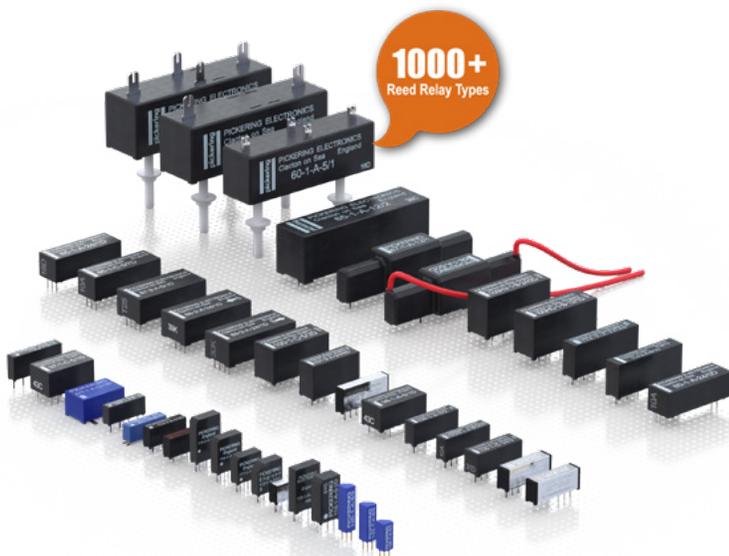
To support integration of these systems, Pickering Interfaces opened a facility in Třinec, Czech Republic, in 2004, focused on designing and manufacturing cable and connector solutions. As demand for these solutions grew beyond the Test & Measurement sector, Pickering Connect was established as a dedicated division.

Today, Pickering Connect delivers custom connectivity solutions across various industries, applications, and volumes — from single units to large-scale production. Backed by over 20 years of experience, we are trusted worldwide for our reliability, support, and commitment to quality.



## Pickering Electronics

For over 50 years, Pickering has been a leader in designing high-end reed relays tailored specifically for instrumentation and test equipment. Renowned for our cutting-edge Single-in-Line (SIL) relays, which are 85% smaller than those offered by other manufacturers, we provide design engineers with unparalleled compactness and performance. These innovative SIL relays are trusted by leading Automatic Test Equipment (ATE) companies globally, making Pickering the go-to choice for those who demand precision and reliability in their designs. With manufacturing facilities in the United Kingdom and the Czech Republic, and sales and support offices across the Americas, Europe, and Asia, Pickering Electronics is positioned to deliver exceptional quality and service to engineers worldwide.



## Pickering Interfaces

For over 30 years, Pickering has been helping test engineers design, deploy and sustain high-performance electronic test and verification systems. As a global specialist in high-quality modular signal switching and simulation, software and services for PXI, and LXI, USB and PCI applications, we provide the engineering capabilities and worldwide resources you need to succeed. However, our philosophy of partnering with each customer helped build our company. That's why our tradition of hands-on, responsive customer service still drives each and every customer interaction.

With over 1,000 products in PXI alone, our core focus is high-density modular switching and simulation systems to meet your requirements. Where our product range doesn't fit your application, we have the agility and expertise to develop a system to your specifications with little to no engineering cost.

We have standard cables already designed for all our products. Every accessory is designed to ensure you have a trouble-free experience connecting our products to your test system.

That's our specialty. At Pickering, we are focused solely on helping you design, deploy and sustain your automated test switching or simulation system.





## Contact Information

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