CUSTOM CABLE ASSEMBLIES

ENGINEERED TO PERFORM

- **Full engineering support, from technical drawings through final build**
- **Miniature, high-density, fiber optic, high-speed data, power and electronics**
- **ISO 9001 / 14001 / IPC/WHMA-A-620 certified**
- **IP68/IP67: 2m/24 hours and 20m/24 hours options**
- **Silicone overmolding capabilities**
- **Flexible, scalable production that keeps pace with your timeline**

Fischer Connectors designs and delivers high-performance cable assembly solutions, combining connector, cable, and overmolding expertise to streamline development and manufacturing with a single trusted partner.

A collaborative path to custom connectivity
Our engineers work side by side with yours at every step, from first sketch to a build that fits your exact connectivity needs.

1 UNDERSTAND THE USE CASE

- Operating environment
- Signal type
- Size & weight limits
- Ecosystem compatibility

2 DEFINE REQUIREMENTS

- Number of pins
- Mating cycles
- Strain relief & sealing
- Locking mechanism

3 SELECT MATERIALS

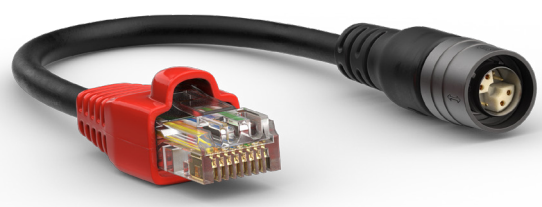
- Insulation & cable jackets
- Overmolding
- Housing & plating material

4 CUSTOMIZE YOUR CABLE

- Marking & etching
- Cable length, color coding
- Multi-leg, Y-split
- Right-angle overmold

5 APPROVAL AND BUILD

- Approval drawings
- Prototype validation
- Multi-stage testing
- Scalable manufacturing



fischer CONNECTORS

Part of Conextivity Group

Engineered for performance, proven in the field
From miniature and high-density to fiber optic and power, high-performance cable assemblies.

MINIATURE & HIGHDENSITY	HIGHSPEED DATA	FIBER OPTIC	POWER SOLUTIONS	ELECTRONIC CONVERSION
SWaP optimized, high pin count in minimal footprint.	USB 2.0/3.2, Ethernet, single pair Ethernet, UHD video.	Harsh environment durable, high ingress protection (IP68)	High power density, ruggedized, hybrid power and data	Protocol conversion via dedicated PCB, line boosters.

Sealed and built to last

From rugged field gear to sterilizable medical devices, our in-house molding and materials expertise keeps every cable protected.

- Highpressure TPU and silicone molding
- Low-pressure molding protects sensitive circuit boards
- In-house tooling for Y-breakouts and right-angle exits
- Custom geometries built to spec, no outside vendors
- Silicone for sealing and sterilization, or TPU/TPE for rugged builds, in custom colors and shapes
- Heat shrink, potting, and bend relief add strain protection where it counts
- Custom tooling available for non-Fischer connectors

Autoclave compatible silicone overmolding

- Watertight seal at the connector-cable junction, rated IP68
- Biocompatible, non-reactive silicone rated -60°C to +180°C
- Proven through 500+ autoclave cycles: steam, heat, and chemical resistant
- Optional low-friction coating improves handling and extends cable life

Tailored manufacturing solutions

Agile manufacturing solutions designed around **your product lifecycle volume and timeline**, so your project stays on schedule.

FISCHER FAST TRAK
Up to 15 units from stocked components, delivered in a just a few weeks.

SMALL BUILD
Flexible MOQs to support low-volume needs.

Concept - Early product development → **Engineering build** → **Preproduction - LRIP** → **Production**

DEVELOPMENT SAMPLES
Prototypes for evaluation and qualification

NEW ASSEMBLY
Full development from concept to release

REORDERS
Existing designs ready for immediate manufacturing

Explore high-performance connectivity solutions
fischerconnectors.com

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