

Your Global Automation Partner

**TURCK**

# Harness and Cable Assembly Solutions



# TURCK

Turck is a global leader in automation technology. Over 4,000 employees in 28 countries strive to deliver the best sensor, connectivity, and fieldbus technology products on the market. To do this more efficiently, we have strategically located production facilities across the globe, including sites in the United States, Germany, Switzerland, Mexico, and China. This allows us to adapt to specific market conditions, as well as bring product to the market faster.

Turck strives to provide our customers with not only the best products on the market, but also the best service and support. Our highly trained engineering staff is available to walk you through your system requirements and help find solutions to difficult application problems. Unlike other companies, when you call Turck, you will always be able to speak directly with an engineer in a matter of minutes! Combine this with a network of 2,000 experts across the United States, and you literally have the finest assembly of automation professionals at your doorstep.



## All Connectivity Is Not Created Equal

Turck's harness team excels at finding solutions for your most difficult connectivity applications; from offering standard cable and wire assemblies to custom developed overmolded harness solutions. Our harness team, coupled with Turck's industry leading connectivity expertise, gives you a partner in the connectivity world to solve your application requirements, from standard everyday issues to the one-of-a-kind applications that no one else will touch. Where others say 'no', Turck finds a way.

Customers in a variety of industries have utilized harness solutions from Turck, including:

- Pharmaceutical
- Oil and Gas
- Food and Beverage
- Solar
- Shipbuilding
- Packaging
- Material Handling
- Agriculture
- Tire and Track
- Rail
- Marine
- Automotive

# Quality with Flexibility

Turck's industry experience allows our harness team to provide customers with connectivity solutions to fit the exact needs of their applications. Whether an application must withstand extreme environmental conditions, combat continual flexing, or meet specific certifications, Turck's harness team works diligently to get the job done and exceed expectations.

## Turck Standards and Testing

- UL Wiring Harness File E257638
- ISO 9001:2008 certified
- ITAR registered
- IPC/WHMA-A-620 certified in-house trainer
- IP67 rating testing capability
- NEMA 6 testing capability
- RoHS compliant materials
- REACH Policy
- Dodd Frank Act Section 1502 - Conflict Materials Reporting
- UL, CSA, FM, ABS and CE engineering support
- Crimp pull testing per UL486A
- 100% continuity and dielectric testing



# Harness and Cable Assembly Solutions

Unmatched engineered wire and cable solutions

- Multibranch cable and wire harnesses
- Simple cable and wire assemblies to highly complex assemblies
- Rugged assemblies outside the cabinet to electronic assemblies in-cabinet
- Fully encapsulated assemblies
- Complex connector assemblies



## Custom Labeling

- Private labeling: using wrap, flag, or shrink labels
- Shrink labels cut to custom sizes
- Hot stamping on discrete wires



## Potting

- Back-shells of connectors
- Receptacles
- Unique applications where sealing is required



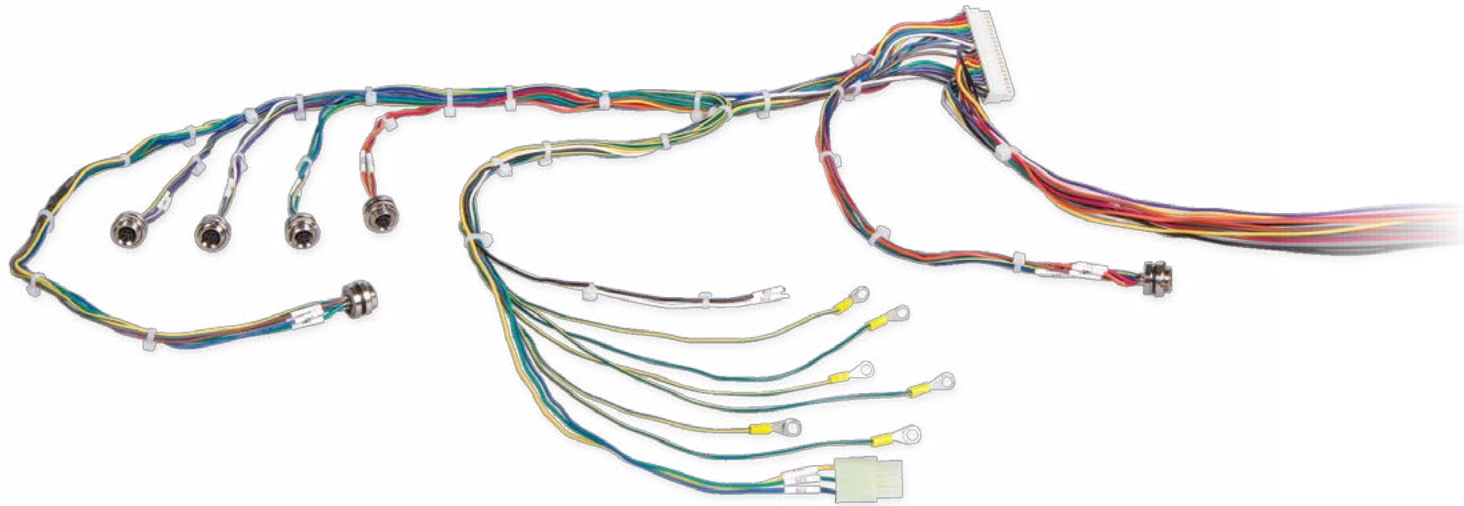
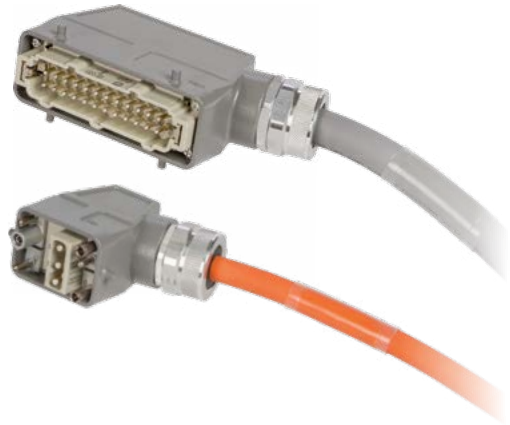
# Capabilities and Services

Turck's harness and cable assembly capabilities are second-to-none

- Automated strip crimping
- Advanced cable cutting
- In-house cable design
- Highly experienced soldering
- Potting
- Custom marking
- Printing, including hot stamping
- Wire prep/processing
- Cable/wire bundling
- Termination of industry standard connectors
- Looming
- Labeling

In order to ensure all of your needs are met, Turck offers a wide range of services to optimize solutions

- Custom cable design for specific applications
- Custom final assembly and harness design
- Kan-Ban
- Overmolded cordset options
- Bonded inventory
- PPAP
- CAD services
- Kitting



## Termination of Connectors

- Industry standard connectors
- Terminals and splices
- Mil-Spec connectors
- Terminal blocks and strips
- Sealed connectors
- RF and coax connectors
- Rectangular connectors
- Many other options available



## Bulk Cable and Wire Inventory

- Over 5.5 million meters in-stock for harness applications
- Industry leading offering for variety, agency approvals, and durability
- Options such as discrete wire, jacketed, and flat ribbon cable available

# A Partner for Success

## Concept to detailed design

- Superior design expertise, capable of taking a napkin sketch all the way to a final product
- Able to provide design assistance at any stage during the design process
- Ability to add efficiency and standardization to existing designs to lower overall product cost



## Build from print

- Ability to work with customer specified designs
- Capable of building to "copy exact" from design to materials
- Able to manufacture directly from customer print



## Total package

- Harness design engineering services
- Wide range of manufacturing capabilities to meet unique and specific applications
- Efficient manufacturing processes
- In-house toolshop to create custom tooling
- Full range of testing services



### Custom Cable Design

- Conductors to fit power and signal applications
- Various insulation materials for all environments
- Shielding to fit application needs



### Fast Service and Support

- Quick responsiveness on quotes
- Fast turnarounds on samples
- Rapid support to ensure needs are met
- Backed by over 2,000 application experts

# The Turck Difference

## Engineering experts

Turck has a reputation for being a global leader in connectivity, and Turck's harness team is no exception. With a wide range of expertise and capabilities that your average harness provider simply cannot compete with, Turck offers solutions that allow you to install and rest easy, knowing your systems are running reliably.



## Setting ourselves apart from the competition

- Industry leader in connectivity
- Willingness to take on tough and unique challenges
- Highly experienced assembly team
- Partner with customers to provide the right solutions
- Wide scope of harness and cable assembly capabilities
- Rugged solutions built to meet unique and specific application demands
- Backed by a global network of engineering experts

Turck prides itself on long lasting partnerships with customers by providing them with not just any solution, but the ideal solution to meet their needs. Turck works!



### Unparalleled Connectivity Solutions

- Power cables including A-size, D-size, and M16 to M40
- Industrial signal cordsets from M5 to M23, Valve, and Mil-Spec
- Wide range of network media
- Full range of custom connectivity solutions



### Full Range for Automation

- World-class position, measurement, and instrumentation products
- Fieldbus technology products available for all major network protocols
- RFID solutions for both HF and UHF

# TURCK



28 subsidiaries and over  
60 representations worldwide!

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