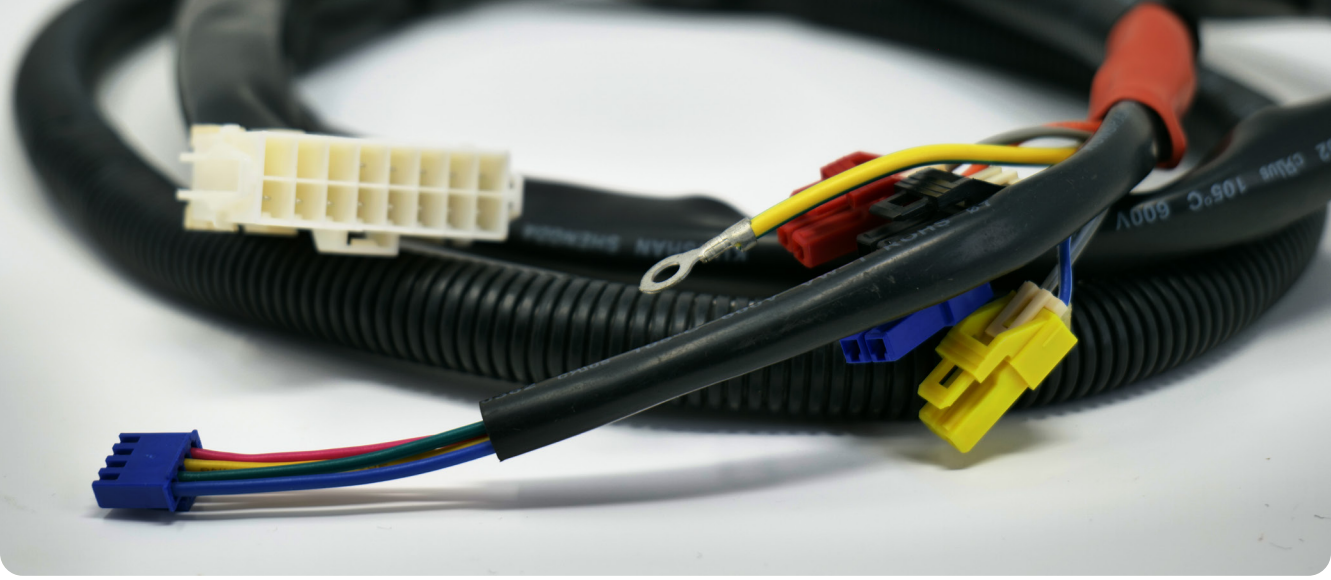
Cable Assemblies Product Guide

Engineering Global Connectivity With You

Version 2

www.taoglas.com



Taoglas, About Us

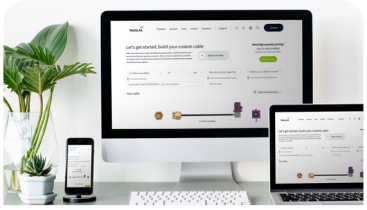
With a comprehensive portfolio, Taoglas has been tackling real-world engineering challenges faced during the development of complex RF and wireless systems for almost 20 years. When it comes to Cable Assemblies, Taoglas has the expertise, and is the ideal partner to help you design, prototype and manufacture high quality solutions that meet your needs. By offering the best-in-class tailored Cable Assembly services, Taoglas helps you bring your connectivity solutions to market on time, the first time. Our commitment to continuous innovation, proactive customer service, and quality you can trust, builds partnerships that don't end with a single IoT component. We engineer solutions that deliver long-term peace of mind to our customers and colleagues, creating time and space to work together to advance global connectivity.

- Shortest lead times in market
- Helping customers to get their product to the market faster

Taoglas Engineering Services and Manufacturing Solutions

RF Services

Utilize Taoglas's RF expertise. Helping you design and optimize RF performance from initial system requirements to final optimized board design ready for carrier certification. **Samples can be shipped in couple of days.**



Cable Builder Application

Use our industry first online tools to customize your cable assemblies, designed specifically to you requirements, and have them shipped to you within as little as 24 hours.

Manufacturing

We operate our own fully implemented high spec ISO13485 and IATF16949 approved production & assembly facility in Taiwan, China, India, and Vietnam. Developing central America and European locations. This allows us to maintain full control over the manufacturing processes as well as our testing & quality.

Cable Assemblies for RF Applications

Taoglas supply an extensive line of RF (Radio Frequency) custom coaxial cable assemblies, for use in wireless telecommunication applications for example 5G/LTE, Wi-Fi , telemetry, test instruments and IoT devices. We have many off the shelf, ready-made assemblies for common applications.

RF Applications :

- EV Charging Stations
- Gateways and Routers
- Warehouse Connectivity
- Traffic Management
- Asset Tracking
- Patient Monitoring
- RF Ablation
- MRI-RF DetectionTechnology

Harnesses for Smart Transportation Applications

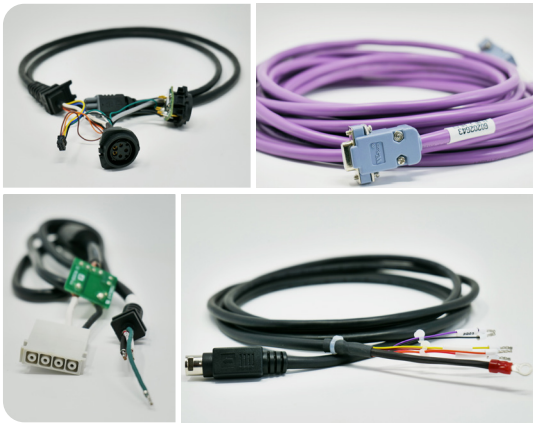
Harnesses are essential when it comes to vehicle safety,navigation, and harsh environments requiring robust solutions, for any power and signal application on commercial vehicle and transportation applications.

Transportation Applications

- Precision Agriculture
- Vehicular Safety Systems
- Autonomous Driving & Robotics
- Telematry
- Construction
- Commercial Vehicles

Cable Assemblies for Connectivity in Medical Devices

Medical Cable Assembles are crucial, when it comes to saving lives! Taoglas, a trusted partner to most of the top 10 medical device manufacturers in the world. Serving a variety of applications including : monitoring, electrophysiology, telehealth, surgical tools, remote care, robotic-assisted surgery, and lifestyle management.



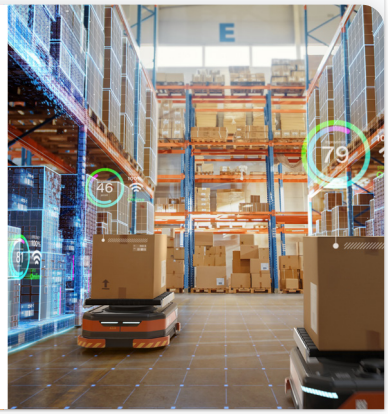
Medical Devices Applications

- Healthcare Wearables
- Patient Monitoring
- Electrophysiology
- Minimally Invasive - Robotics
- Electrosurgical
- Diagnostic

Types Of Cable / Harnesses & Core Competencies

- Coaxial and Triaxial cable
- Flat ribbon cable assembly
- RF cable assembly
- Over molding & cable assemblies
- Potting assembly
- Braid cable assemblies
- Electro-Mechanical harness assembly
- Simple Wiring Kits
- Multi-Conductor I/O Kits
- Routing cable assembly / Looms
- Harness braiding
- RF Cable assemblies
- Automation and sensor applications
- Cable Assemblies with : String relives, Over-molds Backshells
- PCB yolks
- High Power Cable assemblies
- Networking Cable assemblies
- Control Cables
- Automatic End to End crimp machines.
- Semi-Automatic crimp machines together with many different applicators for various crimps
- Over-moulding
- Build cable assemblies from 10AWG to 30AWG with multiple crimp/connector configurations.
    - Crimping
    - Soldering

Custom cable assemblies are a specialty of ours because we understand that each device or application is different, and we tailor a solution that is unique to your needs. Our products are put through Rigorous and Robust Quality Control Testing procedures, ensuring that they are of the highest quality and within approved specifications.



Guiding you to define the right solution

Do you have Drawings? CAD Gerber Files? Or BOM?

- Yes - Build to Print
- No - Potential NRE, CAD
  - What are the customer's preferred component suppliers?
  - Special requirements: Tags, Labels, Marking, Zip Ties are needed?
  - What is the Cable Length? How manybreak ups you need?
  - Where are they? Mating cycles on the connectors: (10 or 10,000)

Is the BOM "restrictive"? (Can we offer reverse engineered vs brand authentic compontents?)

What are the other cable assemblies that are needed on this project?

- What are your priorities ?(Cost, Performance, Reliablitiy, Availability)

What is the Market?

- Commercial Vehicle - What are your priorities ? (Cost, Performance, Reliablitiy, Availability)
- Medical (Might need FDA approval?)- What are your priorities ? (Cost, Performance, Reliablitiy, Availability)

Wire Harnesses and Cable Assemblies are essential components of many industries, yet they are often overlooked in cost and delivery. At Taoglas, we understand the importance of these wiring systems and specialize in their

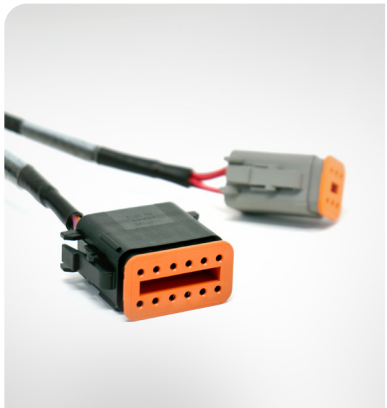
Design › Engineering › Test Development › Prototyping › Manufacturing

Taoglas is a full-service cable assembly manufacturing company that can offer our customers Wire Harnesses and Cable Assemblies as a stand-alone service. Our highly engineered harnesses cater to a range of complexity levels, from Low/Medium/High mix to High/Volume. We invite you to utilize our Engineering team to help you identify the wire, connectors and other components required for each assembly, offering alternatives to long lead-time items and competitively priced solutions. By choosing Taoglas, you're choosing a trusted partner for Wire Harnesses and Cable Assemblies that meet the highest quality.

ISO 13485 Quality Management System | ISO 9001 CERTIFICATION EUROPE

With ISO 9001 and 13485 certified state-of-the-art facilities in India, China, Taiwan, Vietnam, and the US, we offer customers a competitive edge on cost, quality, and delivery worldwide.

By working with Taoglas, you can leverage an extensive portfolio of advanced components and global resources alongside our technical expertise to take your application to market on time.



TAOGLAS®

Founded on Antennas, Scaled for Connectivity

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