



Company Presentation
2016 v1



About US



History Timeline



Locations



TTAF *Turkey Organisation*



China Organisation



International Sales



Product Groups



Leading supplier of interconnect solutions & cable assemblies.



Truly global company with export to more than 65 countries.



Strongly positioned in various markets, providing the widest range of solutions.

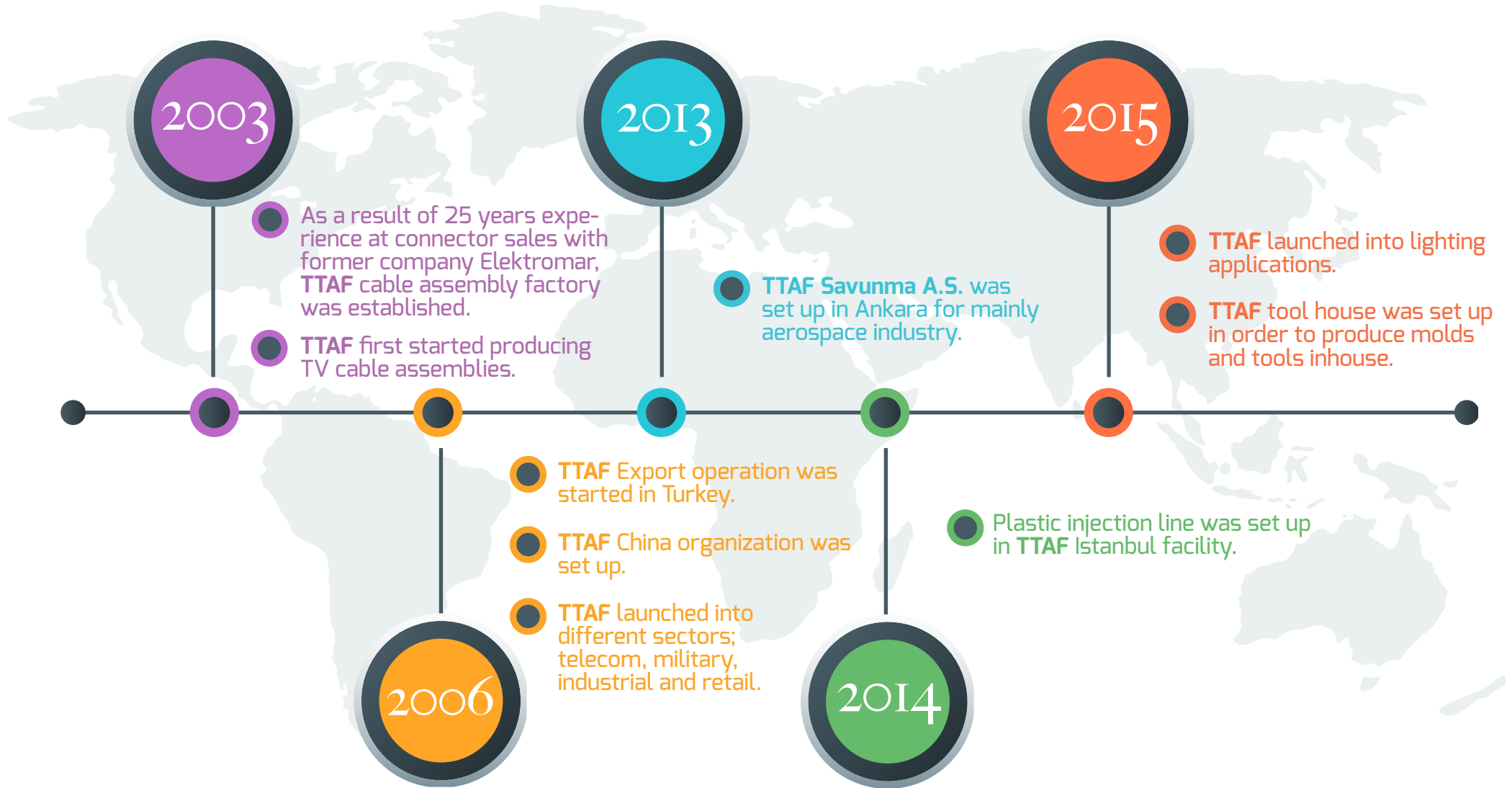


Expertise and diverse at cable assembly production for different industries and flexible needs.



Research and development activities fulfilled in hi-tech environment, always aiming innovation and unique product designs.







TTAF Elektronik San. Tic. Ltd. Şti
Headquarter, factory, warehouse
İstanbul-Turkey 6000 SQM

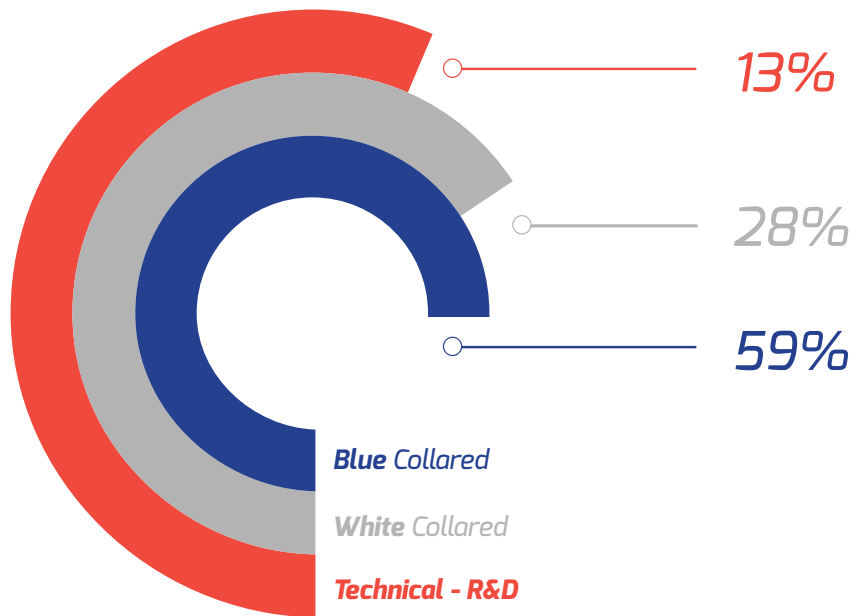


TTAF Savunma A.Ş.
Headquarter, factory, warehouse
Ankara-Turkey 4000 SQM



TTAF Electronics Manufactory Co. Ltd.
Sales and Sourcing Office
Shenzhen-CHINA

Organisational Structure

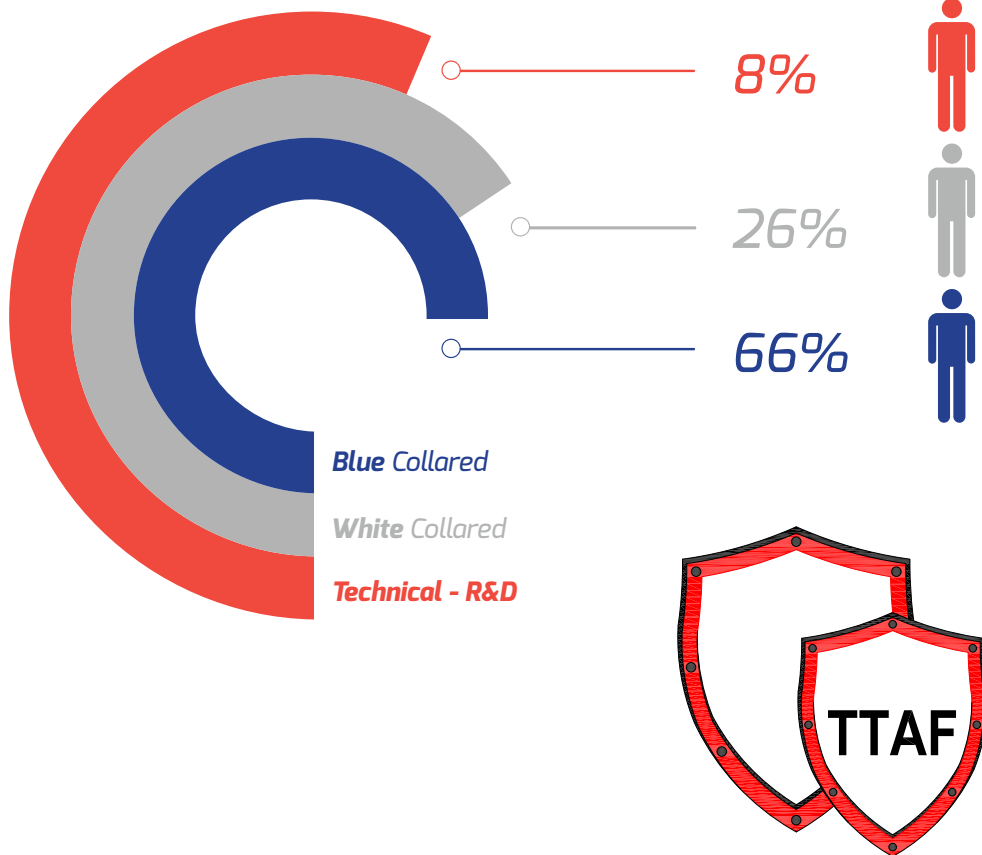


Activities Performed

- 6000SQM Closed Area
- Four Production Lines; Telecommunication, Lighting, Consumer and Industrial.
- Technical Support and Engineering
- Domestic Sales & Marketing
- International Sales & Marketing
- Warehousing
- R&D



Organisational Structure



Activities Performed

- 4000SQM Closed Area
- Electrical wire harness manufacturing, Electromechanical assembly,
- Technical Support and Engineering
- R&D

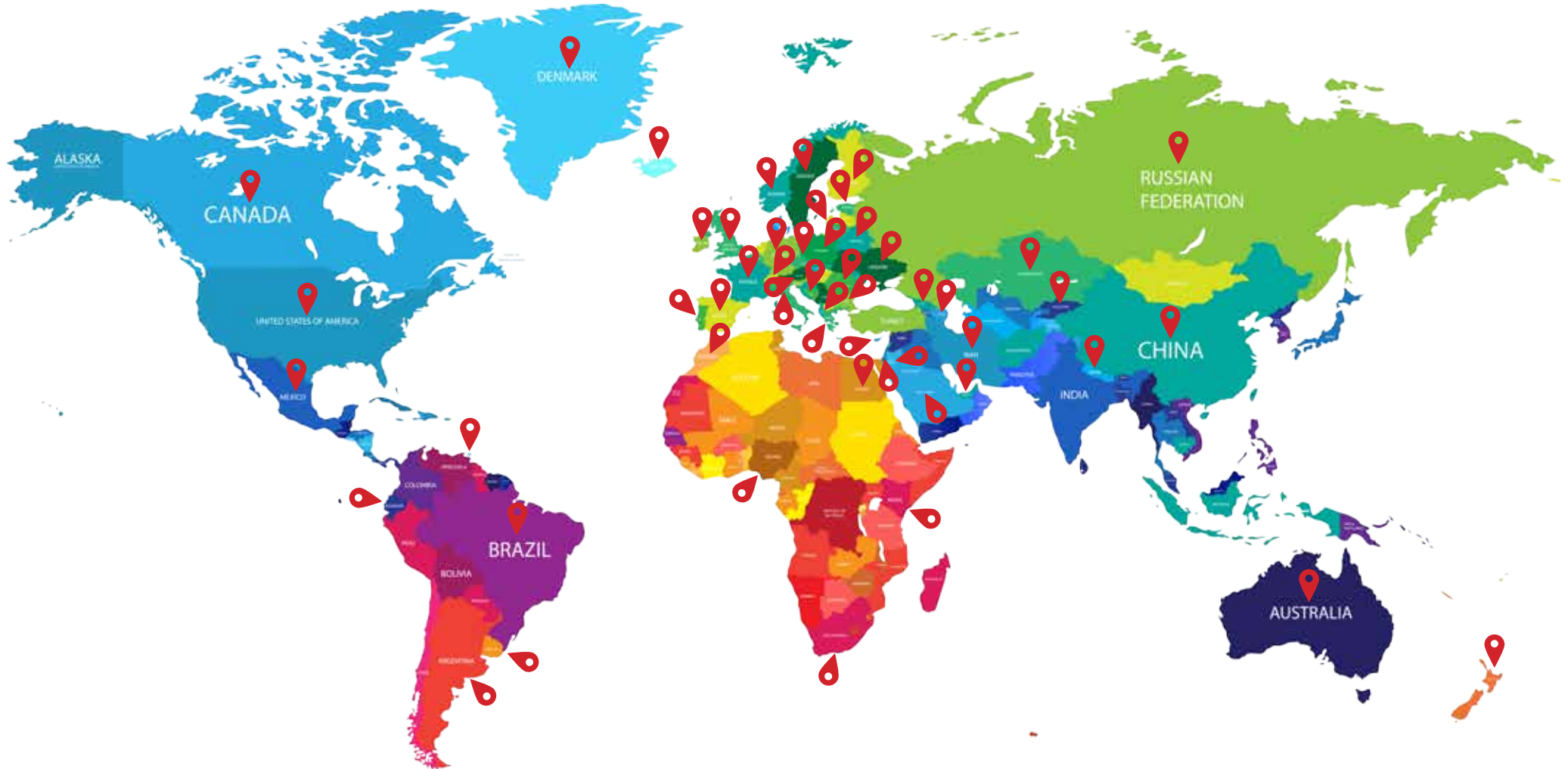


Sales and sourcing office in Diwang Center Shenzhen.

Activities Performed

- *Sourcing*
- *Domestic & Export Sales*
- *Logistics*





Truly global **company** with export **to more** than **65** countries.

Cable Assemblies



Overmolded Cables



Box Builds



Network Solutions



Lighting



Waterproof Interconnect Solutions





LIGHTING



INDUSTRIAL



***TELECOM
DATACOM***



CONSUMER



DEFENSE



LIGHTING

TTAF provides complete system solutions for outdoor lighting applications.

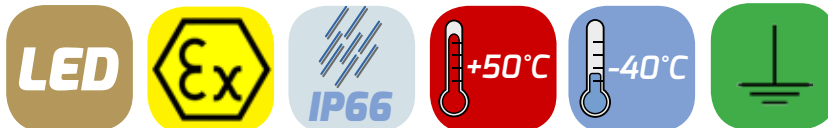
- + Lamp Festoon For Outdoor Lighting
- + Street Lighting
- + ExProof Lighting





LIGHTING

- » Designed and approved for safe use in explosive environments such as underground in coal mining where dangerous levels of methane and explosive dust exist.
- » The idea lighting fixture solution for the underground working in tunnels or tunnel construction.





LIGHTING



TTAF Field Installable Connectors & Splitters, providing quick and practical field assembly, manufactured from impact and UV resistant materials ideal for outdoor and indoor IP67 applications.





INDUSTRIAL

TTAF industrial manufacturing has mainly Four divisions- cable assembly, box build, panel wiring and overmold cables.



Cable Assemblies an extensive range of cable assemblies and connectors manufactured to customer specifications and industry type.

TTAF manufactures a wide variety of **wiring harnesses**. Specializing in custom applications from light duty lead wire to heavy duty cable assemblies .

Overmolded cable assemblies are designed for long life and reliable performance in a variety of applications. We manufacture straight, right angle, or customer specific molded backshells for different connectivity situations.

We have the resources and skills to design and manufacture a wide range of custom **box build** electronic assemblies for any industries.

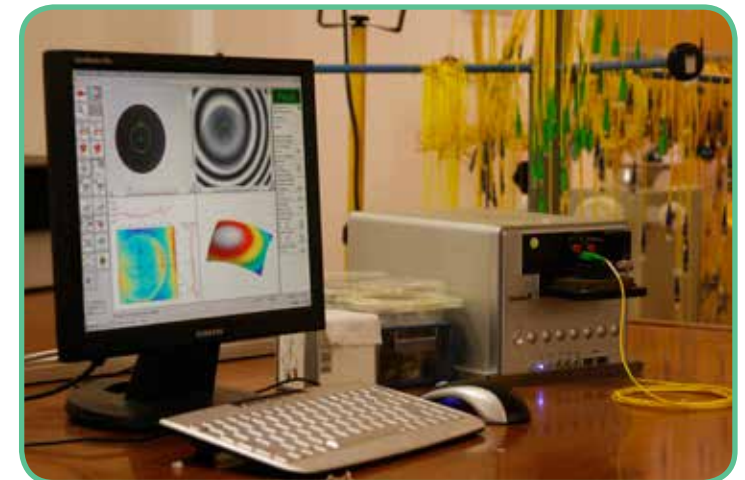
TTAF offers a wide variety of wire **connector solutions** that fit applications requiring high power solutions or micro miniature options.



TELECOM/DATACOM

TTAF products are widely used in telecommunications and data communication system. We provide customers with standard products, customized products and outward processing services.

We aim to offer high standard connection program and improve product quality and efficiency by realizing high benefit-cost ratios.



Lan&Data Cables



Lan Cable Accessories



Fiber Optic Cables



Fiber Optic Accessories



Fiber Optic Enclosures



Fiber Optic Tools



Fiber Optic Test Equipments



Media Converters



SFP Transceiver



GBIC Modules

Cleaning Accessories



Epoxy Injection



Connector Surface Cleaning



Connector Crimping



Dispensor



Oven For Epoxy Fixing



Epoxy Amount Measuring



Cable Cutting and Winding



Polishing



Kevlar Cutting With Vacuum Pump



Cable Stripping



Fiber Stripping



Optical Source



CONSUMER

TTAF Manufactures wiring harnesses fully in compliance with the customer's needs.

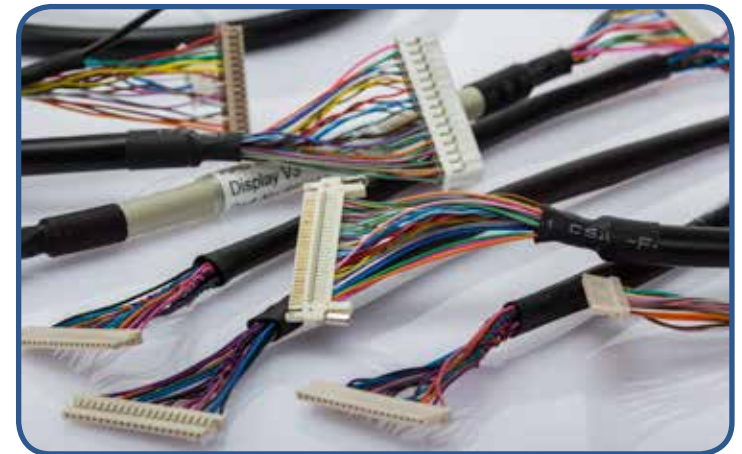
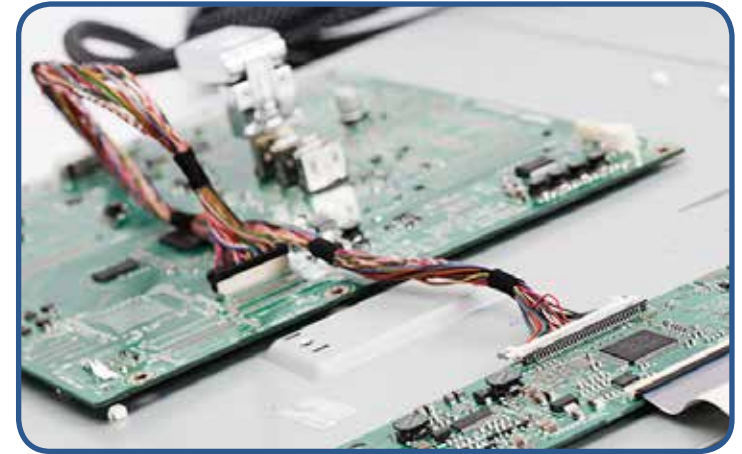


Products for requirements of Brown goods & small house appliances industries;

- + LVDS Cables
- + Inverter Cables
- + Low-voltage Cables
- + Customized cable assembling
- + Data Cables
- + Display Cables
- + Ribbon Cables
- + Round Cables

Our production is based on :

- + Fully automated cable cutting & crimping
- + Compliant with RoHS & Reach Directives
- + %100 Visual Control and Electrical Test





DEFENSE

TTAF Savunma San Ve Tic A.Ş is specialist in the design, development and manufacture of electrical interconnect systems and electro-mechanical assemblies installed to ;

- + Air
- + Land
- + Naval
- + Space and Telecommunication platforms

AIR



LAND



NAVAL



Aerospace Platforms

From our AS9100 registered facility we supply wire harnesses and electrical cables for mission-critical products are designed and engineered to meet specific application requirements for electrical connectivity, systems control, testing and support on a wide range of aircraft and equipment platform. Testing and Marking standards of AS9100 are fully followed thanks to the state of art equipment such as DIT-MCO high voltage testing system and TRI Star M-100L FG-TT Laser wire marking system.

Naval Systems

Special requirements for extreme conditions in which marine ships operate, are placed on cable assemblies and wire harnesses.

TTAF Savunma San Ve Tic A.S's design and production techniques in maritime environments is ensured by rigidly following to international standards and intensive testing procedures designed for these environments.



Armored Vehicles

TTAF Savunma San Ve Tic A.S is committed to serving the armed forces with expertise in ruggedized cable assembly with extensive knowledge of the components and materials regularly used in Mil-Spec Wiring Systems including connectors, backshells, wire and the heatshrink tubing for the most challenging Land based vehicles and applications providing the perfect solution for ease of installation.

Communication Equipment

TTAF Savunma San Ve Tic A.S's cable assemblies are lightweight and designed to excel in the military communications field, widely used for interconnecting headsets or microphones.



A light gray rounded rectangle with a large orange semi-circle on the left side.

DESIGN

A light gray rounded rectangle with a large orange semi-circle on the left side.

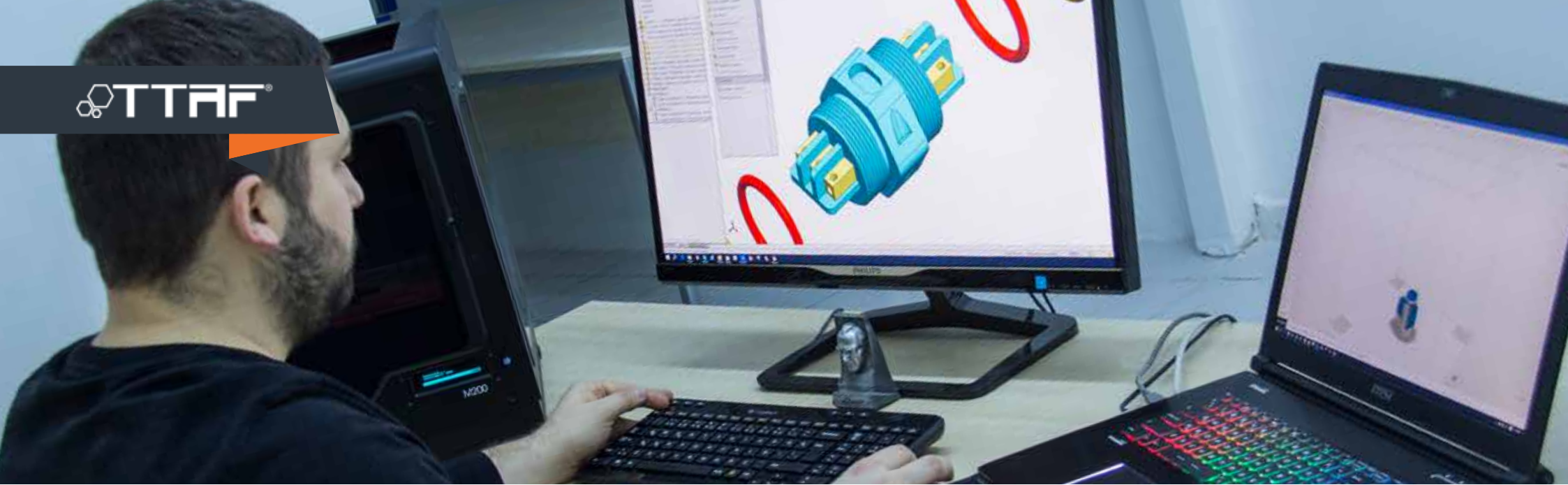
TOOLING HOUSE

A light gray rounded rectangle with a large teal semi-circle on the left side.

PRODUCTION

A light gray rounded rectangle with a large dark blue semi-circle on the left side.

QUALITY



DESIGN

TTAF has the industry experience and production capabilities to master the challenges of today's high technology requirements.

Common areas of expertise include:

3D Prototyping

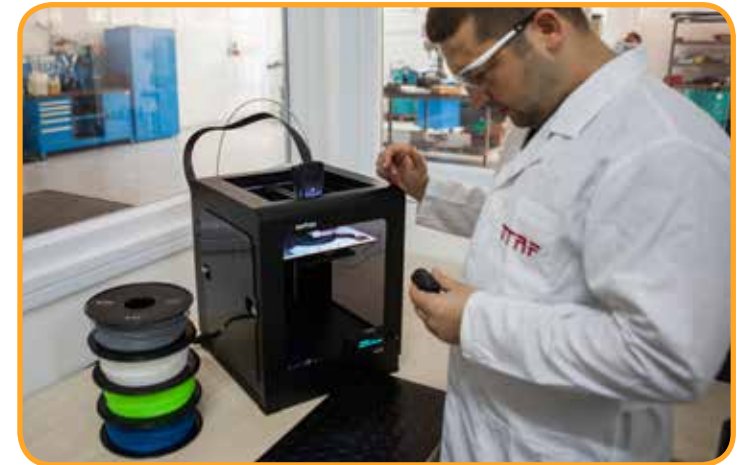
Concept & Design Evaluation

Material & Component Selection

Engineering

Cost Reduction

Technical Drawing Capabilities (2D; Autocad, 3D; SolidWorks, CAM; ESPRIT)





TOOLING HOUSE

New products performed in **TTAF** design department are formed at **TTAF's** fully equipped tooling house, In order to provide the best fitting solutions for customer's needs.



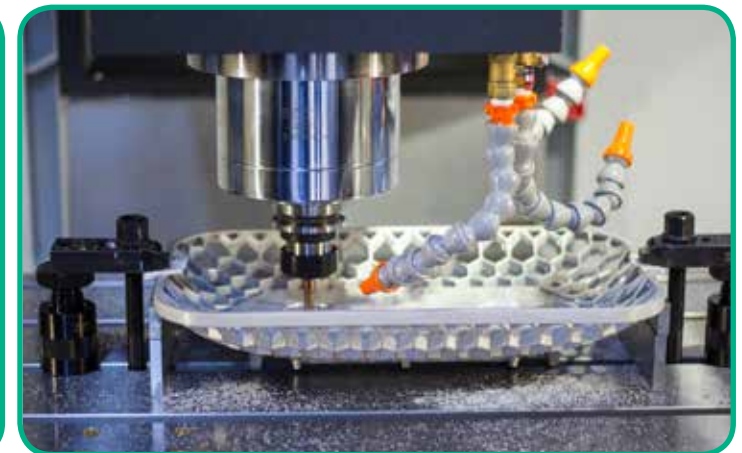
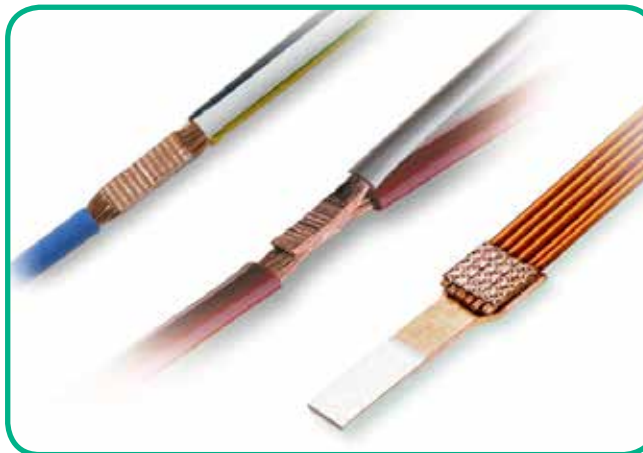
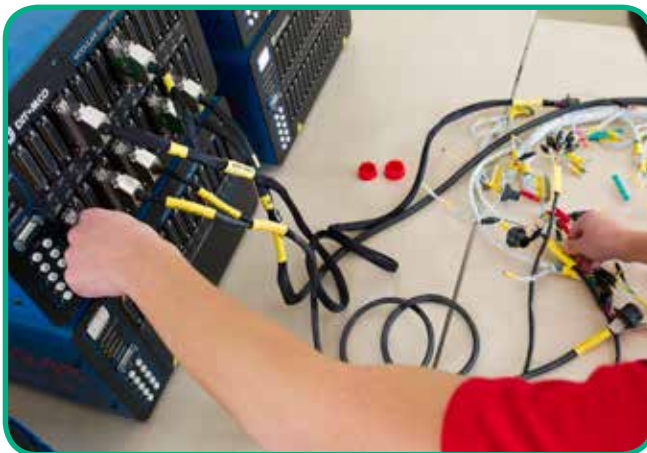


PRODUCTION

TTAF has the industry experience and production capabilities to master the challenges of today's high technology requirements.



- + Vertical and horizontal type overmolding injection.
- + 2 different types of marking; lasermarking & inkjet marking.
- + Termination with all methods-CRIMP, IDC, SOLDER, ULTRASONIC WELDING.
- + In house designed test-boards & main layout boards.
- + 3D Design & Prototyping.
- + In house IP test.
- + In house tooling production with high technology CNC Machines.
- + Fully integrated with state of the art technology and production equipment.





QUALITY

We believe that quality is the most important point for manufacturers. **“Quality First”** is our faith. Therefore, we regard QC as one of the most vital processes during production. From the sources of raw materials and production to packaging of finished products, each stage is strictly monitored to ensure defect-free products.

- + Problem Solving Methods (8D, Pareto, Fishbone, 5 Whys, ...)
- + PPAP-APQP (FMEA, SPC, MSA,...)
- + ROHS
- + REACH



Our quality management system is certified in accordance with **ISO 9001:2008** standards.

HSE (Health, Safety, Environment)

- Periodic control of lifting vehicles
- Periodic health controls
- Using of protective equipment
- Waste management
- Training

