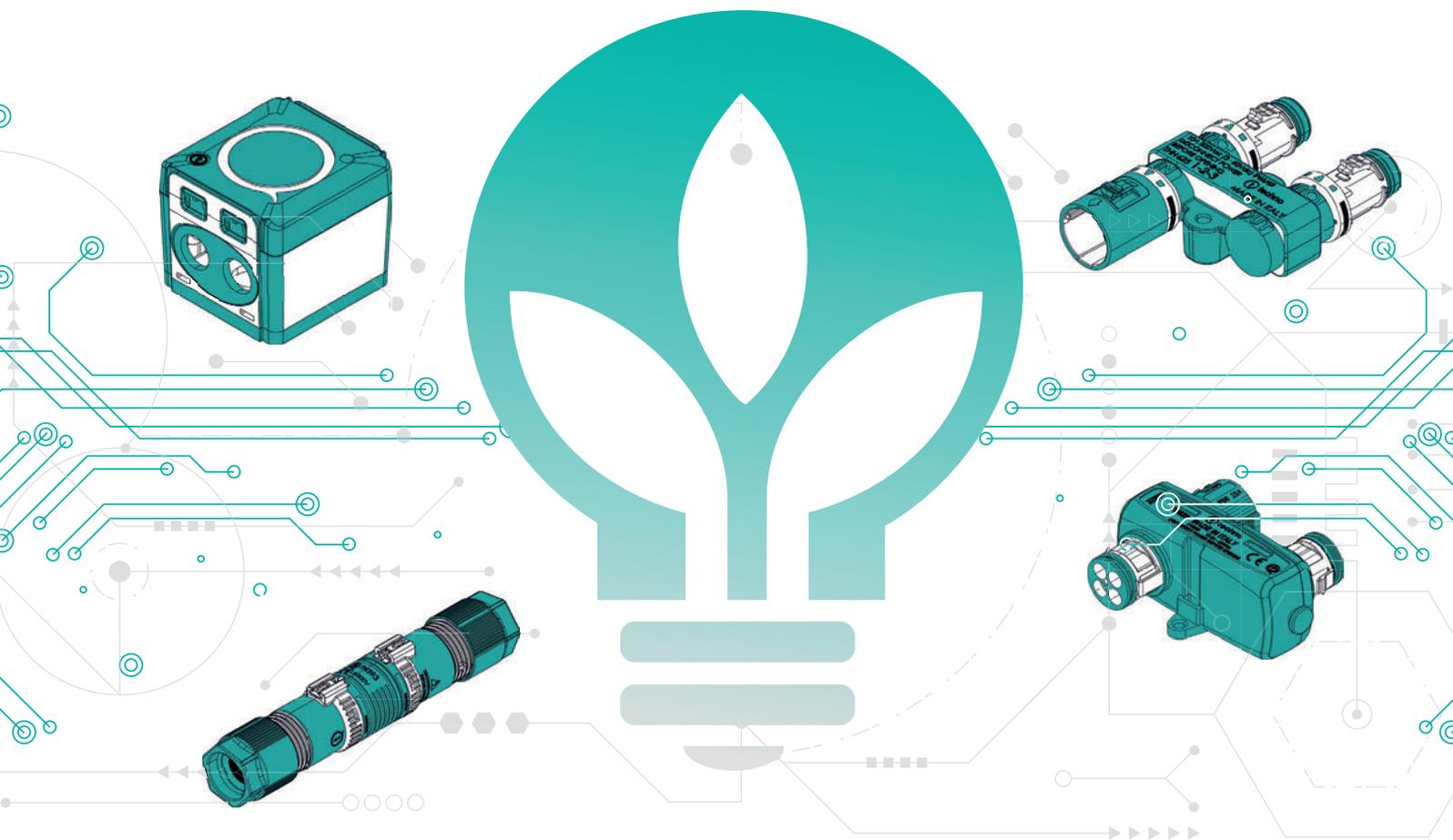


## NEWS 2022/2023

IP6x electrical connections and solutions for advanced IoT ecosystems

**NEW!**  
OCT. 2022





**ioth.it**

Discover all products that can be integrated into your connection project

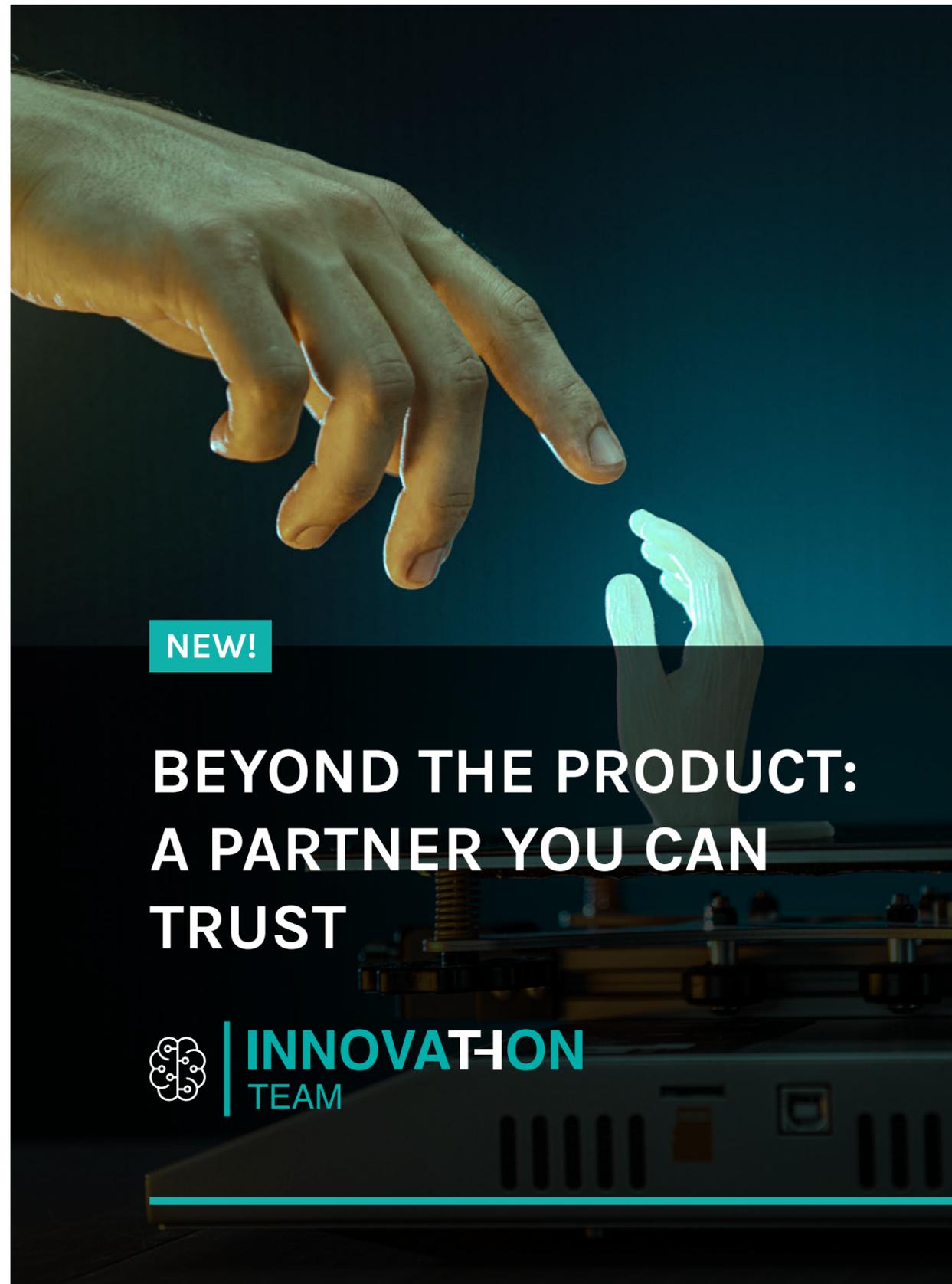


**techno.it**

Learn more about our services and connector solutions

# CONTENTS

01	<p><b>4 - 7</b>  <b>VALUES, INNOVATION, PEOPLE</b></p> <p>Innovation Team: centre for technology development                  Zhaga: operation with smart lighting systems                  SPE: a revolution for the electrical connections industry                  A real Made in Italy production                  techno.it: more than just a website</p>
02	<p><b>8 - 11</b>  <b>TEEfamily® AND IoTH® FAMILIES</b></p>
03	<p><b>12 - 15</b>  <b>NEW JUNCTION BOXES</b></p> <p>TH210 - Junction box with 4 inputs-outputs IP66   IP67   IP68                  TH212 - Mini junction box with 6 inputs-outputs IP65   IP66   IP67</p>
04	<p><b>16 - 19</b>  <b>RAPID PLUG AND SOCKET CONNECTING SOLUTIONS</b></p> <p>TH389 - Mini plug-socket connectors with spring terminations IP66   IP68                  TH625 - 3 and 4 way micro current distributor plug-socket IP66   IP68</p>
05	<p><b>20 - 23</b>  <b>IN-LINE JOINT AND BRANCH CONNECTORS</b></p> <p>TH393 - Mini in-line joint connector with spring terminations xDRY® IP66   IP68                  TH391 - Mini in-line joint connector xDRY® IP68</p>
06	<p><b>24 - 25</b>  <b>TEfamily® FAMILY INDUSTRY (Applications in harsh environments)</b></p>
07	<p><b>26 - 29</b>  <b>CONNECTING SOLUTIONS FOR HARSH ENVIRONMENTS</b></p> <p>TH387UP - Mini plug-socket connectors IP66   IP68                  TH624UP - Mini current distributor plug-socket for quick installations IP66   IP68                  TH389UP - Mini plug-socket connectors with screw terminations IP66   IP68   IP69                  TH629UP - Mini current distributor plug-socket for quick installations IP66   IP68   IP69</p>



**NEW!**

# BEYOND THE PRODUCT: A PARTNER YOU CAN TRUST



**INNOVATION  
TEAM**

## VALUES, INNOVATION, PEOPLE

### THE CENTRE FOR TECHNOLOGY DEVELOPMENT

A new laboratory equipped with machinery for carrying out IP tests, mechanical stress tests, thermal, electrical and aging. The Innovation Lab was born according to a strategic need of Techno to significantly increase the control of the production process and to open up to new markets.

In order to ensure maximum compliance to the client's requests, they can be therefore performed further tests, based for example on specific rules relating to sectors e applications, by type of installation, mechanical, thermal and environmental conditions.



#### YOUR BENEFITS

- + Special tests on customer request also long lasting
- + External area dedicated to test in real environmental conditions
- + IEC and UL/CSA tests capability

#### A YOUNG TEAM TO CREATE INNOVATIVE CONNECTIONS

Techno's new internal division made up of specialised human resources in the various engineering sectors, whose task is to research and develop disruptive, sustainable and high added value projects. The new division is at the heart of a synergistic system involving R&D, production, quality department and the Techno Innovation Lab.

#### YOUR BENEFITS:

- + Highly professional design and development
- + Reactivity to customization requests
- + Network of knowledge shared with institutes, universities and specialized suppliers



WATCH THE VIDEO

## OPERATION WITH SMART LIGHTING SYSTEMS



Techno is an Associate member of the Zhaga consortium, a global organization that aims to standardize the components for LED lighting fixtures.

### YOUR BENEFITS

- + Experience with different communication protocols
- + Adaptability of Techno solutions to control systems
- + Integration of devices and sensors available on the market into Techno products



LEARN MORE

## A REVOLUTION FOR THE ELECTRICAL CONNECTIONS INDUSTRY



### Single Pair Ethernet System Alliance

Techno is a member of the Single Pair Ethernet association System Alliance, with the aim of deepening the new ones technologies related to signal transmission.

### YOUR BENEFITS

- + Key technology for Industry 4.0 e IoT
- + Extensive use with range up to 1,000m and speeds trasmission up to 1 Gbit/s
- + Reduction of dimension and weight of the overall connection system



LEARN MORE

## A REAL MADE IN ITALY PRODUCTION



In the last 36 years, Techno has always produced connectors in Italy, without ever moving its productions, making use of suppliers, consultants and partners based in Italy. Today, Techno is certified according to the Italian law (Law nr. 166 article 16 of 20 November 2009).

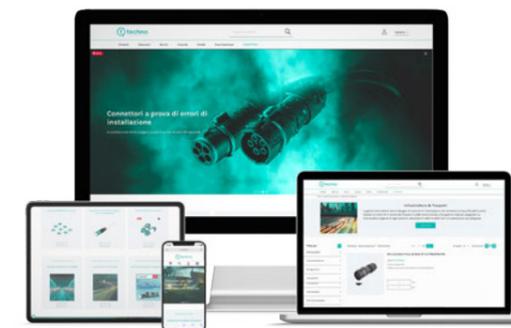
### YOUR BENEFITS

- + Certification of origin and quality (Italian Institute for the Protection of Italian Producers)
- + Total control of the production cycle and lean and efficient supply chain
- + Flexibility and speed of response to market changes



LEARN MORE

## MORE THAN JUST A WEBSITE



The new techno.it site offers various functionalities to the visitor who wants to find technical and commercial information and news concerning Techno in a simple and fast way.

### YOUR BENEFITS

- + Product code search in less than 4 steps
- + A web section dedicated to how to develop customized solutions
- + The order cycle can be consulted in your private area

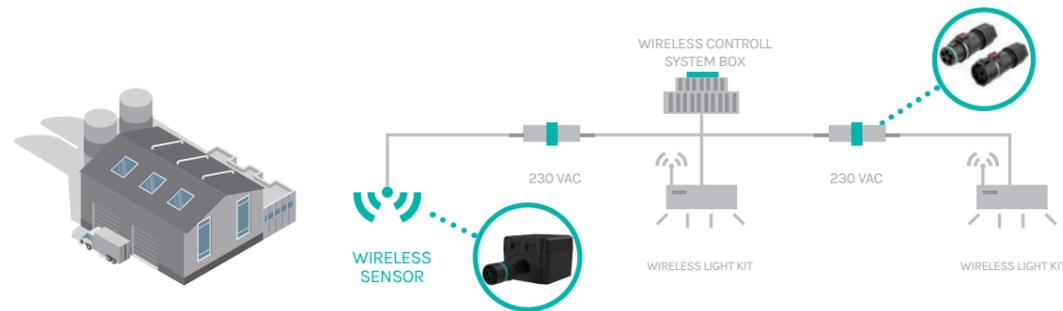


LEARN MORE

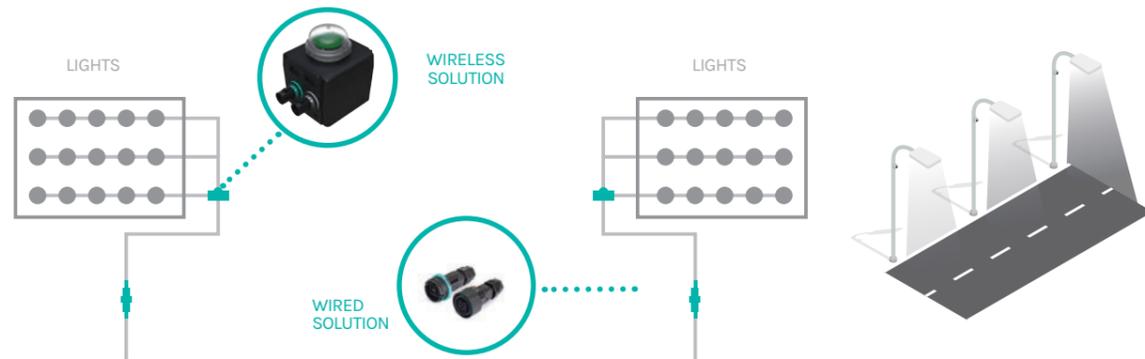
TEEfamily® and IoTH® families

# IoTH® SOLUTIONS

RELIABLE CONNECTIONS FOR ADVANCED IoT ECOSYSTEMS.



Wireless solutions (e.g. industrial applications)



Wired solutions (e.g. urban and sports applications)



### ADVANCED

To control drivers, sensors, controllers, and manage lighting installations or smart devices remotely.



### INTEGRATED

To integrate existing products made by third parties and adapt to technological innovations.



### MODULAR

To bring together devices with different communication protocols and connection types in a single installation.



### SAFE

Thanks to products such as TEEIoT Wired, TEEIoT Wireless, sensors or custom products, communications are stable, thanks to the quality of the Techno product.

## TECHNOLOGIES AND CONFIGURATIONS

The product configurations proposed by Techno, combined with the various communication protocols, allow internationally standardized connection solutions such as:



### OUR IoT PARTNERSHIPS

The Internet of Things, or 'IoT', is an increasingly advanced ecosystem that connects humans and machines in a continuous exchange of data and information that is revolutionising the way we live, not just work. In this landscape, for individual devices to function, the necessary condition is a stable, secure connection that can be integrated and compatible with the different platforms that companies in the sector are developing. Our goal is to create a network of companies that integrate their products and services, in order to offer efficient solutions that meet all the technological requirements needed for the IoT ecosystem to function properly.



LEARN MORE

TEEfamily® and IoTH® families

# INCREASINGLY SPECIALIZED SOLUTIONS

Ours is an eco-system of catalogue solutions and customized design and production services to guarantee customers and partners reliable and certified products. We will always provide you with the right answer and the assistance of a highly professional partner.

## OUR ADVANTAGES

-  Simple and fit to purpose for quick maintenance
-  Reliable for IP66 | IP68 | IP69 protection
-  Modular and configurable by the customer
-  Certified and tested for long period of use

Connecting solutions (IP6x) for low voltage electrical systems



Solutions for IoT systems and installations



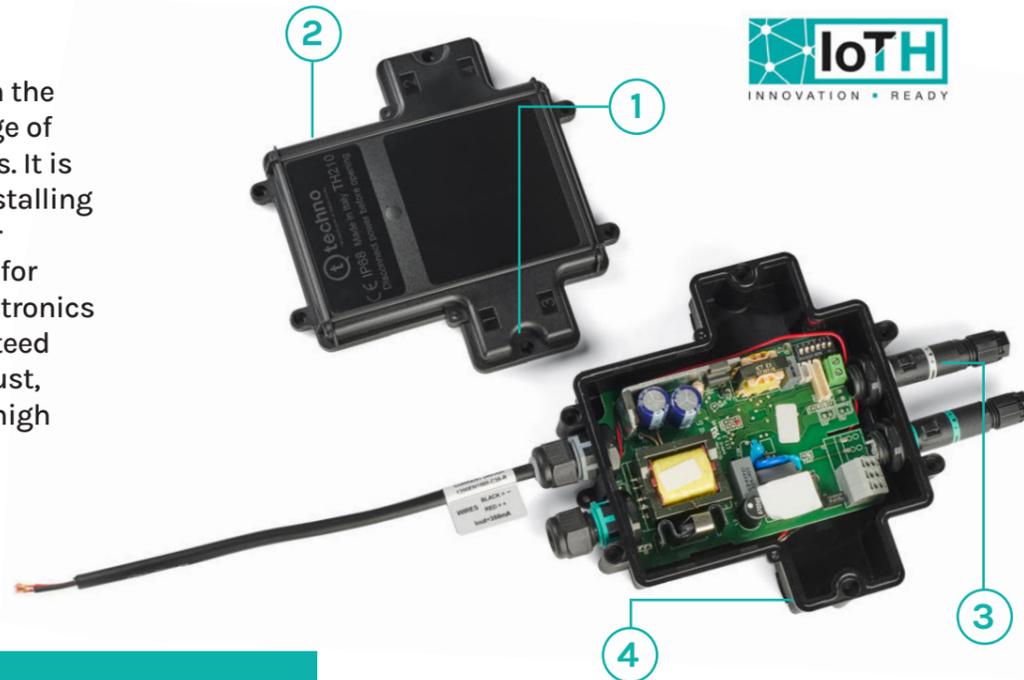
NEW JUNCTION BOXES

# TH210 - JUNCTION BOX WITH 4 INPUTS-OUTPUTS IP66 | IP67 | IP68

SMALL DIMENSION, LOTS OF SPACE, HIGHLY CUSTOMIZABLE.

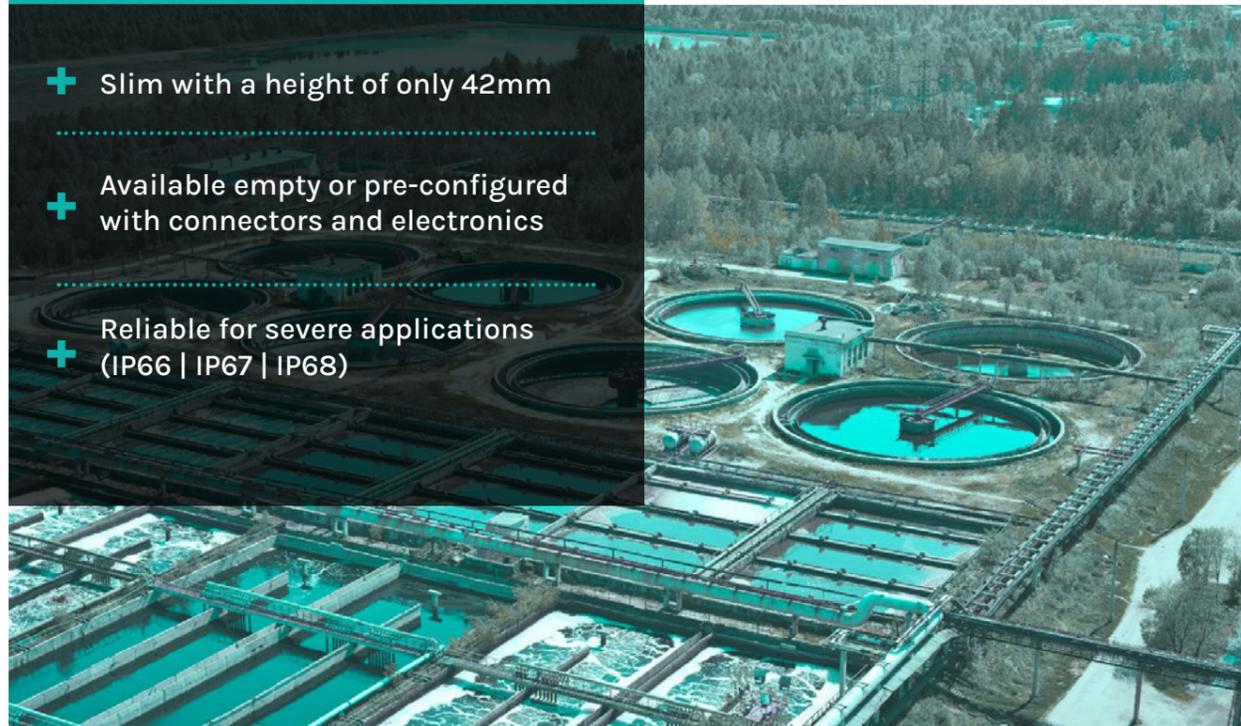


The TH210 compact and versatile junction box in the new solution in the range of TEEBOX® junction boxes. It is suitable for remotely installing the connection or power control of a system and for integrating parts of electronics and sensors. All guaranteed by protection against dust, humidity and frequent high pressure jets of water.



## YOUR BENEFITS

- + Slim with a height of only 42mm
- + Available empty or pre-configured with connectors and electronics
- + Reliable for severe applications (IP66 | IP67 | IP68)



**1 ANTI-LEAKAGE OVER-MOULDED GASKETS**  
Injection with TPE/TPV technical rubbers.

**2 FUNCTIONAL AND ROBUST DESIGN**  
IK10 at temp. ambient +25°C.



**3 INPUTS-OUTPUTS (4X M16, 2X M20)**  
Configurable with connectors and accessories from TEEFamily® range.



**4 ANTI-CONDENSATION BARRIER AND CUSTOMIZED WIRING**  
(On request).



## IDEAL FOR ELECTRICAL AND IoT READY SOLUTIONS

TH210 is compatible with the wide range of Techno components, such as TEEBLOCK® terminal blocks, TEEGLAND® cable glands of TH450 series, TEEPLUG® plug-socket connectors, in particular TH381 and TH387 connectors, the closing caps of the unused outputs and many other accessories. With an internal usable space of 80 x 108 x 34 mm, it is a reliable solution for the protection of standard electrical components, LED drivers, power supply and control systems of antennas and sensors.



LEARN MORE

NEW JUNCTION BOXES

# TH212 - MINI JUNCTION BOX WITH 6 INPUTS-OUTPUTS IP65 | IP66 | IP67

ELEGANT, FUNCTIONAL AND IoT READY.



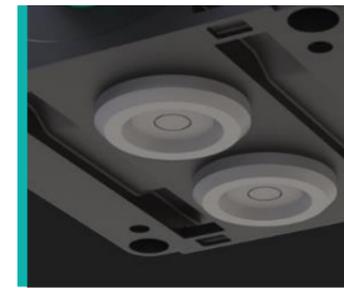
TH212 is a mini junction box designed in every detail. Specifically designed for IoT systems, being able to integrate electronic and control components (wired, wireless). Easy to configure and install.



**First box on the market IP65 | IP66 without screws on the cover.**  
Quick clip attachment without tools.

## YOUR BENEFITS

- + Compact size (72 x 75 x 57 mm)
- + Elegant aesthetics: can be integrated into architectural and decorative lighting projects
- + Lid with quick coupling system without screws (IP65|IP66). With screws (IP67)



**1 6 INPUTS-OUTPUTS (4XM16, 2XM20)**  
Easy breaking of the entries on the side and base of the box.

**2 EMPTY OR PRE-CONFIGURED**  
TH212 can install the wide range of TEEfamily® connectors and accessories, as well as standard products and accessories on the market.



**3 SMART LIGHT & SMART CITY READY**  
Configurable: by combining different options it is possible to have an ideal solution for integrating sensors (eg Zhaga).



**4 THE RIGHT "OUTFIT" FOR SMART DEVICES**  
Accessories for installing electronic modules and wi-fi connection. Anti-condensation barrier e customized wiring (on request).



## DESIGNED FOR ADVANCED CONTROL SYSTEMS

TH212 is a mini junction box designed for quality electrical systems and to meet the integration needs of electronic components and sensors for advanced control and monitoring systems. Compact and with an internal space of 50 x 50 x 46 mm, it is useful as a quick and functional interface solution for IoT devices.



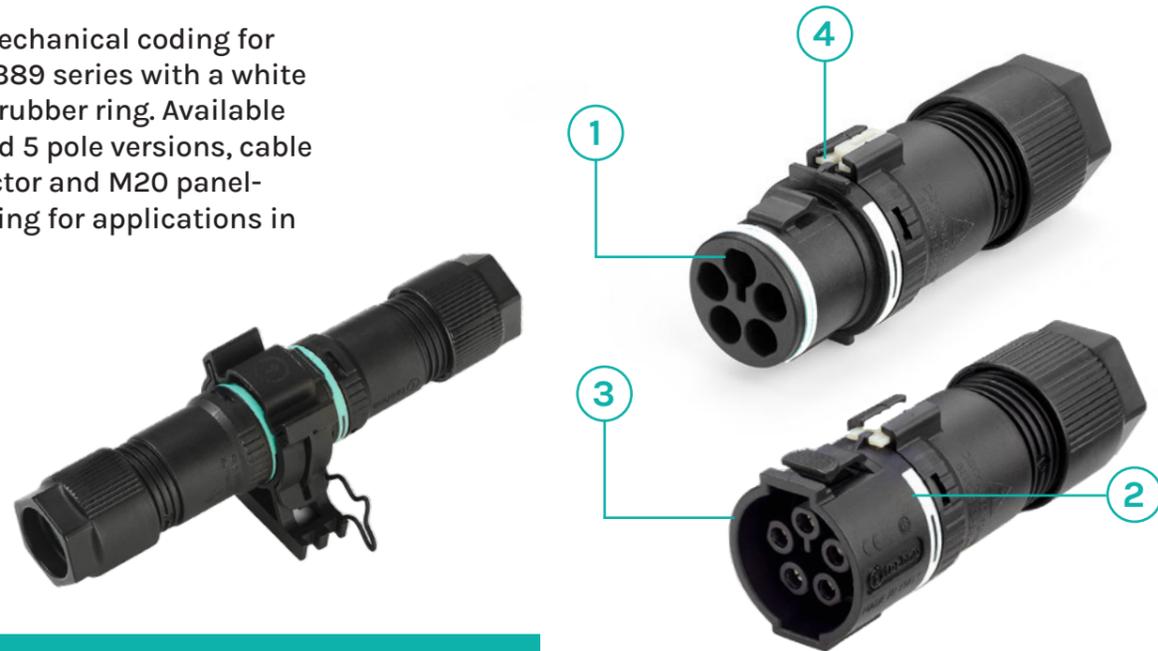
RAPID PLUG AND SOCKET CONNECTING SOLUTIONS

# TH389 - MINI PLUG-SOCKET CONNECTORS WITH SPRING TERMINATIONS IP66 | IP68 | IP69

**FAILURE-PROOF INSTALLATION.  
QUICK AND STABLE CONNECTION OVER TIME.**

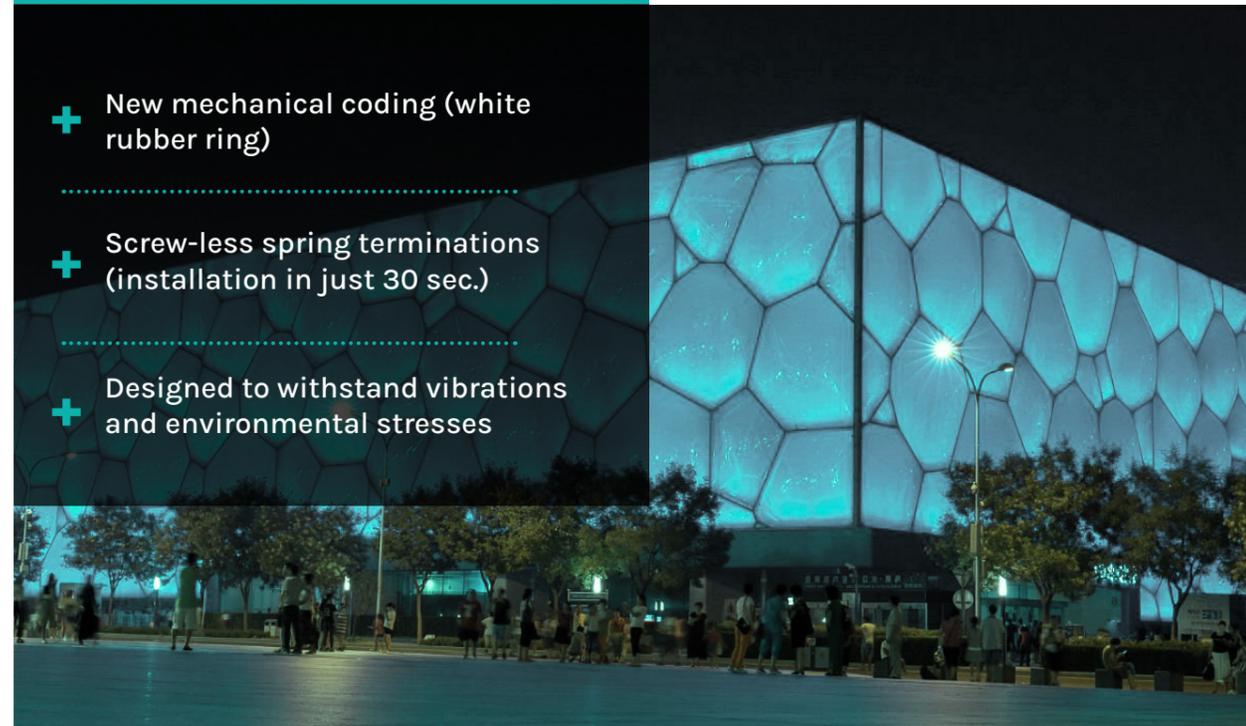


New mechanical coding for the TH389 series with a white colour rubber ring. Available in 4 and 5 pole versions, cable connector and M20 panel-mounting for applications in AC/DC.



## YOUR BENEFITS

- + New mechanical coding (white rubber ring)
- + Screw-less spring terminations (installation in just 30 sec.)
- + Designed to withstand vibrations and environmental stresses



**1 NO CHANCE OF INSTALLATION ERROR**  
Plug-Socket with mechanical coding and white colour for applications up to 500V AC/DC.

**2 LESS INSTALLATION TIME**  
Quick wiring of rigid and flexible conductors with spring technologies (max. 1.5 mm<sup>2</sup>).



**3 INTUITIVE AND ROBUST CONNECTION**  
Quick coupling and release (push-pull) plug-socket connector, reduces errors of accidental coupling-release.



**4 TAMPER-PROOF CABLE GLAND**  
Cable gland with bayonet locking and tamper-proof system reduces installation errors and withstands vibrations.



## DIFFERENTIATED MECHANICAL KEYS

Quick plug and play solution, simple and fool proof. Green and white rubber colours identify the right connector, for example, for low voltage systems, emergency systems or main power.



LEARN MORE

RAPID PLUG AND SOCKET CONNECTING SOLUTIONS

# TH625 - 3 AND 4 WAY MICRO CURRENT DISTRIBUTOR PLUG-SOCKET IP66 | IP68

SOLUTIONS FOR EVERY ELECTRICAL DISTRIBUTION NEED.



TH625 is now also available in a 3 way version "Y" type with 1 input and 2 outputs. It can also be purchased in ready-to-use kits, complete with plug and socket, for 3 and 4 way configuration (Y and H) and with a fixation accessory.



Complete kit with current distributor and TH381 2 and 3 pole plug-socket connectors



## YOUR BENEFITS

- + New 3 way version "Y" type in 2 and 3 poles
- + Useful for parallel connection (series connection on request)
- + Very compact size for confined space (59 x 39 x 16 mm)



### MAXIMUM INTEGRATION INTO THE SYSTEM

A wide range of installation accessories and closing caps are available.



### DIFFERENTIATED MECHANICAL KEYS

Mechanical codings available for a better usage with power systems (max 10A 500V AC) and signal circuits (max. 10A 3V-60V DC).



LEARN MORE

IN-LINE JOINT AND BRANCH CONNECTORS

# TH393 - MINI JOINT CONNECTOR WITH SPRING TERMINATIONS xDRY® IP66 | IP68

THE FASTEST JOINER TO CONNECT 2 CABLES IN OUTDOOR.



TH393 is one of the most compact joint connector in the market, to join two cables quickly and safely, in environments with humidity and dust.



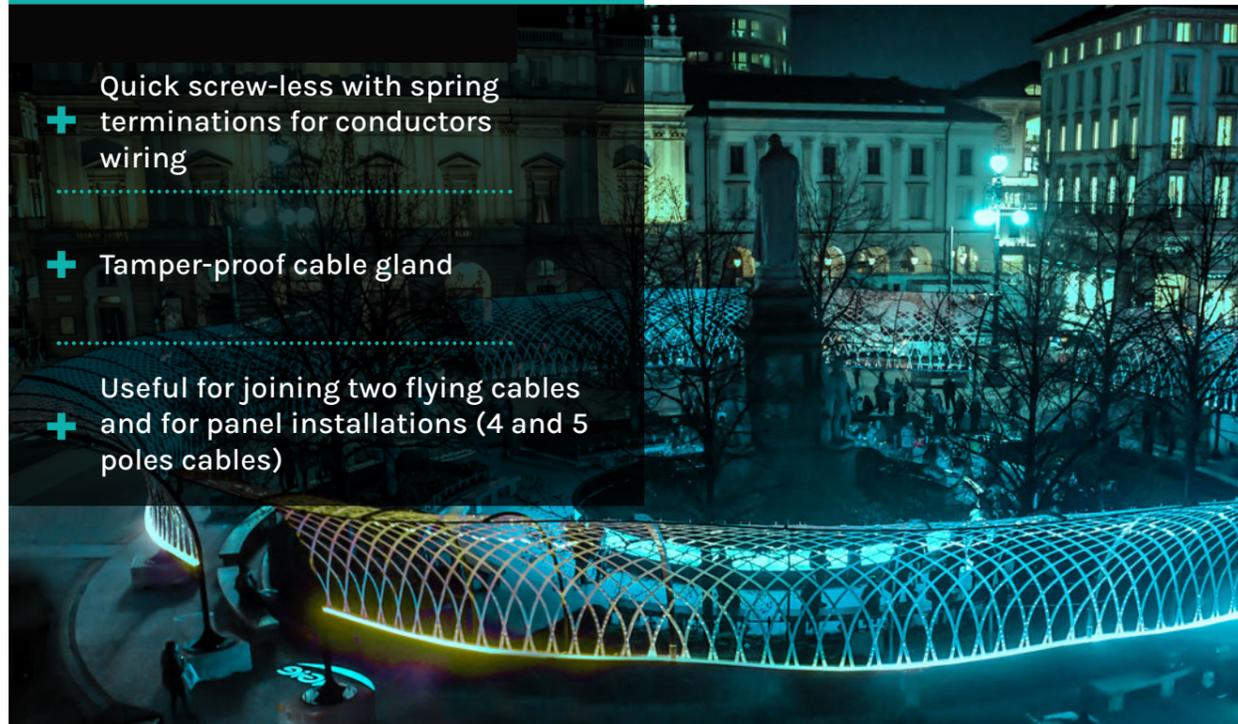
1 Quick wiring of rigid and flexible conductors with spring technologies (max. 1.5 mm<sup>2</sup>)



Spring operation with lever without tool.

## YOUR BENEFITS

- + Quick screw-less with spring terminations for conductors wiring
- + Tamper-proof cable gland
- + Useful for joining two flying cables and for panel installations (4 and 5 poles cables)



2 TAMPER-PROOF CABLE GLAND  
Cable gland with bayonet locking and tamper-proof system reduces installation errors and withstands vibrations.



3 CIRCULAR AND COMPACT  
With a circular section and small dimensions, the TH393 joiner easily integrates into ducts, corrugated pipes and other installation systems. Outer diameter of cable that can be installed: 13.5 mm.



IN-LINE JOINT AND BRANCH CONNECTORS

# TH391 - MINI JOINT CONNECTOR xDRY® IP68

NOW ALSO AVAILABLE UP TO  
5 POLES.



The range of in-line joint connectors is enriched by the 5 pole screw version for conductors up to 1.5 mm².



1 The special anti-condensation barrier prevents any moisture or damp inside the cable from entering the connection and proceeding towards the device installed.



## YOUR BENEFITS

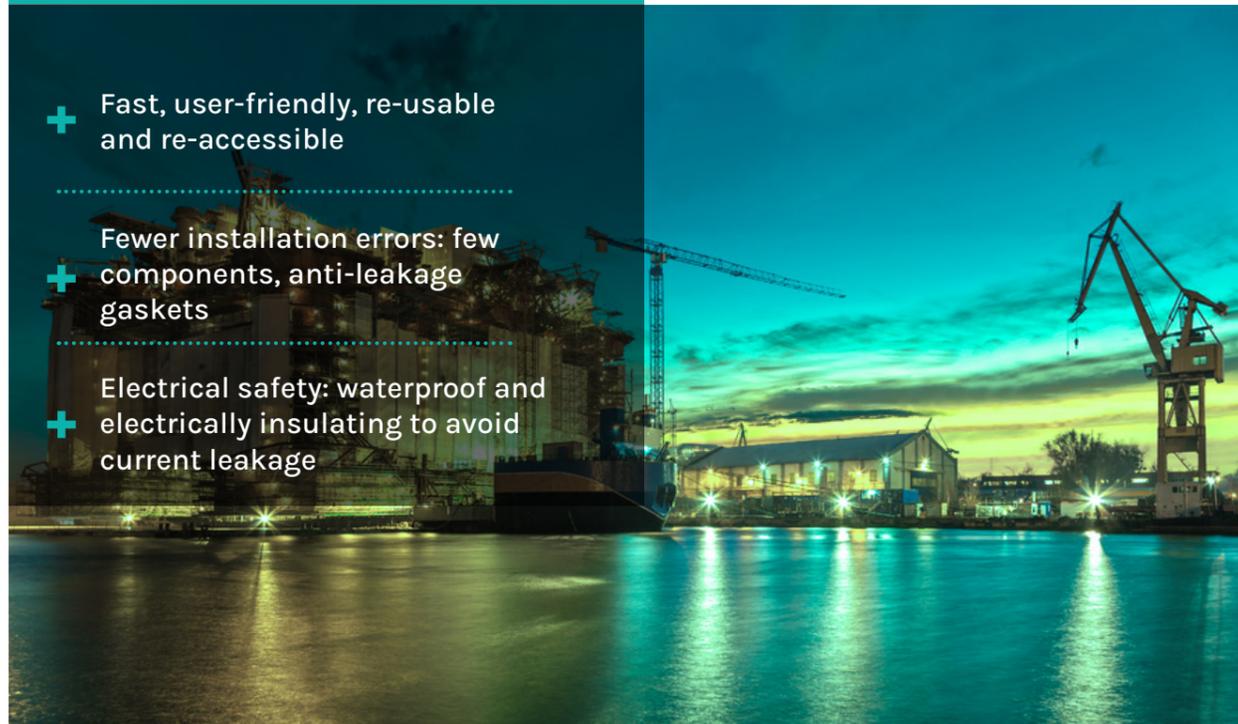
- + Fast, user-friendly, re-usable and re-accessible

---

- + Fewer installation errors: few components, anti-leakage gaskets

---

- + Electrical safety: waterproof and electrically insulating to avoid current leakage



2 TAMPER-PROOF CONNECTORS, RESISTANT TO BENDS AND INSTALLATION ERRORS

TH391 is available with over-moulded cable (cable gland is not necessary) to guarantee superior resistance against atmospheric agents and mechanical stress.



LEARN MORE

TEEfamily® INDUSTRY (Applications in harsh environments)

## ROBUST AND RELIABLE FOR HEAVY DUTY APPLICATIONS

Techno offers a wide range of connectors for “heavy-duty” applications: lighting systems in severe operating conditions, industrial areas and any application located in adverse climatic conditions, characterized by high humidity and extreme temperatures, as well as mechanical stress.

TEEfamily® Industry is born, a range of connecting solutions up to IP69 that Techno wanted to enhance to reach higher operating temperatures, electrical and mechanical specifications.



### YOUR BENEFITS

- + Modular connectors with screw, spring and crimp terminations
- + Fewer installation errors: few components and anti-leakage gaskets
- + Enclosures for connectors with protection up to IP69
- + Mechanical resistance up to IK10
- + UL/CSA and Rina (Marine) certified

CONNECTING SOLUTIONS FOR HARSH ENVIRONMENTS

# TH387UP - MINI PLUG CONNECTORS IP66 | IP68

## EVEN MORE ROBUST FOR DEMANDING APPLICATIONS.

Techno presents the new version of TH387 plug and socket connector: TH387UP. A restyling with new features for applications in harsh environments. The current range of TH387 products and related accessories remain fully available in our catalogue.



**1 ROBUST AND EASY TO INSTALL**  
New ferrule design allows installation possible with a tool (i.e. wrench with hexagon 24 mm).

**2 MORE TIGHTNESS**  
Renewed cable gland design to improve adhesion of the grommet to the cable



**3 CHOOSE ACCORDING TO THE CABLE**  
Wide range of TPE rubber and silicone grommets. Silicone accessories are recommended if high temperature resistance is required or a particularly rigid cable is used.

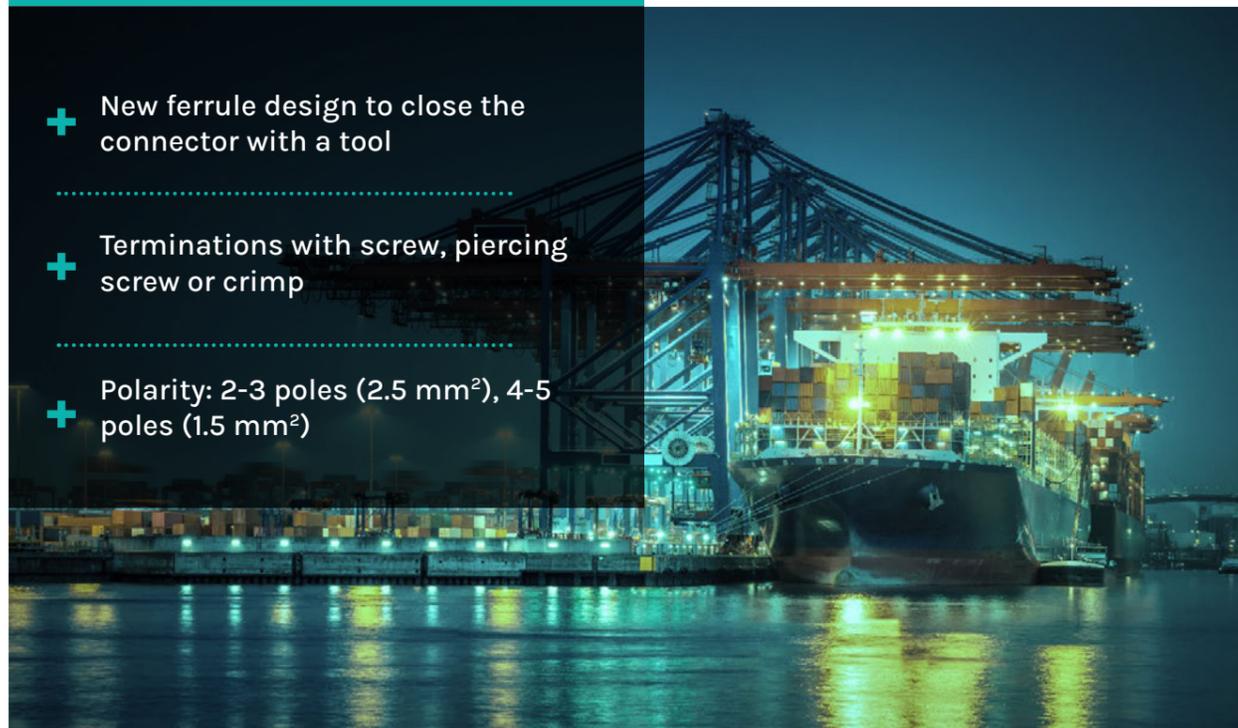


**4 LESS INSTALLATION ERRORS**  
Over-moulded cable-connectors versions guarantee superior safety against atmospheric agents and greater ability to withstand bending and repeated disconnections



### YOUR BENEFITS

- + New ferrule design to close the connector with a tool
- + Terminations with screw, piercing screw or crimp
- + Polarity: 2-3 poles (2.5 mm<sup>2</sup>), 4-5 poles (1.5 mm<sup>2</sup>)



### TH624UP: Junction boxes, goodbye!

The new TH624UP current distributor, with the renewed ferrule design, permits multiple parallel connections of power and signal devices or circuits, optimizing installation and maintenance costs. Using TH624UP installation works are easier and faster.



CONNECTING SOLUTIONS FOR HARSH ENVIRONMENTS

# TH389UP - MINI PLUG-SOCKET CONNECTORS WITH SCREW TERMINATIONS IP66 | IP68 | IP69



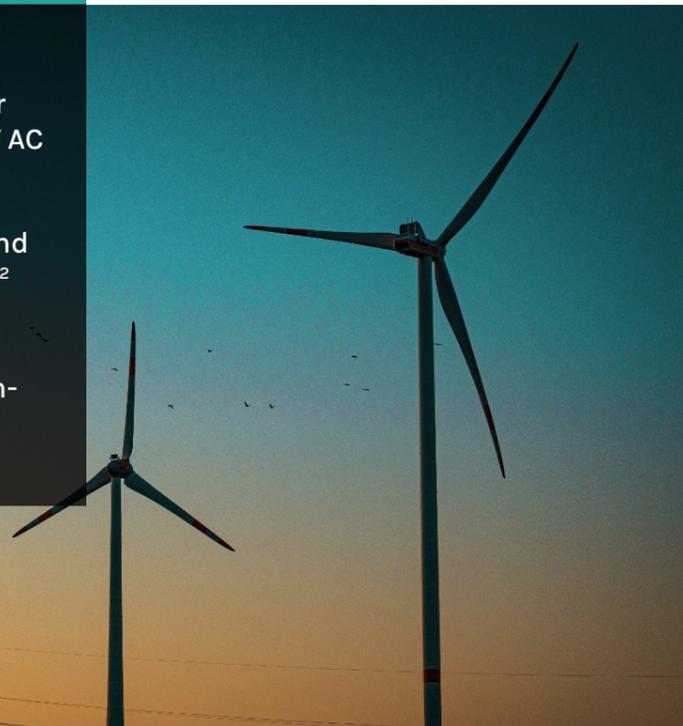
## MORE POWER AND LARGER WIRING SIZE.

TH389UP range of connectors offers all features and benefits of TH389 series, with screw terminations for larger conductor size up to 2.5 mm<sup>2</sup> (3 and 4 poles).



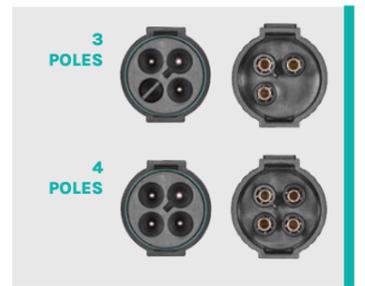
### YOUR BENEFITS

- + Ideal for industrial applications for cables of 3 and 4 poles, 25A - 630V AC
- + Screw terminal blocks for rigid and flexible conductors up to 2.5 mm<sup>2</sup>
- + Quick coupling and release (push-pull) plug-socket connector, reduces installation errors



**1 ROBUST AND RELIABLE**  
Silicone O-ring for greater resistance to temperatures and adhesion to the cable insulation thanks to its flexibility.

**2 DIFFERENTIATED MECHANICAL KEYS**  
Mechanical codings available to avoid coupling of different connector versions.



**3 FAST AND SAFE**  
Quick coupling and release (push-pull) plug-socket connector, reduces errors of accidental coupling-release.

**4 CHOOSE ACCORDING TO THE CABLE**  
Wide range of TPE rubber and silicone grommets. Silicone accessories are recommended if high temperature resistance is required or a particularly rigid cable is used. The accessories of TH387 series can be used with TH389UP connectors for the benefit of a reduced stock and wide customization of the variants.



## TH629UP: POWER DISTRIBUTOR FOR QUICK CONNECTIONS

TH389UP connectors include TH629UP 3 way "Y" current distributor for cables up to 4 poles.





**Techno s.r.l.**

Via Bancora e Rimoldi, 27  
22070 Guanzate (CO), Italy  
Ph. +39 031 976445  
customerservice@techno.it  
[www.techno.it](http://www.techno.it)  
[www.ioth.it](http://www.ioth.it)



Management System  
ISO 9001:2015  
ISO 45001:2018



[www.tuv.com](http://www.tuv.com)  
ID: 9105981951

Any improvements to the product and changes to the technical data indicated in this document may be made without notice. Contact the Customer Service or visit [www.techno.it](http://www.techno.it) for the latest updates.