











The different connection



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# The choice, to be experts.

## In the forefront of the electrical connection sector.

Founded at Guanzate (Como, Italy) in 1986, Techno expanded in time as a strategic partner to several important national and international manufacturing groups operating in many industrial sectors. With a several decade strong experience in connectors and through a continuous product evolution, Techno further strengthens its position in the market. Today, it **is a specialist in designing and the realisation of innovative solutions for the electrical connectors sector requiring high performance** (severe electrical and thermal specifications, protection rates from atmospheric agents and dust as high as IP68 - continual submersion).



## The Mission.

Where necessary to explore new solutions in the field of electrical connections, Techno is the market protagonist in serving its customers with a complete service approach that spans from initial design through to manufacturing and delivering of the finished product.

**During the last 4 years 8 new product ranges have been designed and developed providing a product offer of more than 900 references. 2008 saw an investment of 6% of annual sales turnover on R&D.**

Innovation is a core value of the Techno team and an integral part of its culture at all company levels. This allows Techno to be a major player in this changing market.





# Total quality. A brand of true values.

## Work excellence the “modus operandi”.

Constant improvements to obtain 100% quality brought Techno in 1992 to be **the first Italian company to obtain ISO 9002 (UNI ES ISO 9000) certification for the injection moulding of thermoplastic**. Commitment towards total quality also ensured Techno to obtain ISO 9001:2000. Today this philosophy is reinforced by renewing and guaranteeing high levels of quality in the processing and the products marketed.



## Innovation and creativity the incentives that make the difference.

Techno's design office creativity together with a several decade experience in the industry sector allows to offer new products with distinctive elements. High performing materials and innovative moulding processes translates to perfect functionality and reliability available to customers.

## Quality is the esteem and trust built with customers.

All of Techno's energies are used to increase the value of the relationship with its commercial partners in regard to trust, punctuality and professional correctness. Value is always provided through appropriate and professional support: with a prompt answer to enquiries to better assist the customer.

## Team work at the service of Techno's partners.

Techno is a reality which involves and thrills. Techno spreads in its organisation the culture of quality and provides with new advanced working. Our Mission is supported by people inspired by the core values of integrity and honesty, openness, respect for others, willingness and a desire for constant improvement.





# A “rule of art” complete service approach.

## Total Italian competence.

Designing and manufacturing all items directly in the Guanzate (Como, Italy) factory allows total control of the manufacturing process and guarantees effective answers.

Value is created for customers through the proper design, industrialization and manufacture of connections in conformity to quality standards.

## Always ready to listen.

The goal: find the winning solution that is right for the customer. Techno listens very carefully to its partners in all the processes from product design through to customer service.

## Understand customer goals, values and challenges and translate them into products.

Techno's know-how in the injection moulding field, the knowledge and continuous research of new raw materials and the competence in the electrical connection area are all made available to bring out the maximum in a customer's product.

## Support with latest technology.

A modern manufacturing division, covering an area of 4.200 m<sup>2</sup>, guarantees a manufacturing capacity for market requirements. Highly qualified personnel experienced in tool making and highly advanced technical machinery design and construct moulds with high quality standards.



# Long lasting partnerships are built for real competitive advantages.

**Obtain 100% Quality: a constant goal for Techno.**

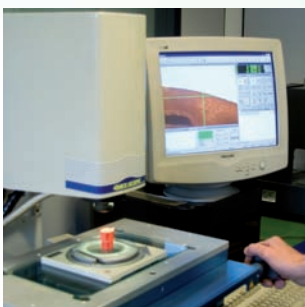
Experts every day are committed to guarantee total quality by carrying out product control tests in conformity to international standards (i.e. dimensional controls, raw material analysis and mechanical tests on the injection moulded parts).

**Provide high-level of logistics and post-sales support.**

The “lean” philosophy is part of the culture of the Techno team. **The Kan-Ban system** controls the manufacturing division and warehouses, thus assuring to anticipate orders for customers in order to offer a **just in time service**.

**Surprise customers with custom made products for maximum satisfaction.**

The ability to create personal solutions following specific requirements of the customer leaves the road open to several possible strategic collaborations with manufacturing companies in the other industrial sectors.



# Creativity, innovation and experience generate competitiveness and newness of product.

## TEEfamily<sup>®</sup>. Where quality and safety are a priority requirement.

TEEfamily<sup>®</sup>, new and distinctive electrical connectors, are now the choice for those who want to install superior products, thus raising the added value of their work.

The TEEfamily<sup>®</sup> offer is distinguished by special quality performance including a high degree of protection from atmospheric agents (dust and water) as far as IP68 (continual submersion).

## Constantly evolving. Always something new to be found.

Products are regularly innovated regarding functionality through new technical solutions characterised by high performance levels and always guaranteeing total quality.

## Distinctive and innovative. For the benefit of customer competitiveness.

Advanced technologies and innovative technical solutions, give TEEfamily<sup>®</sup> articles those distinctive elements that favour competitiveness of a customer's solutions.

## Modular and versatile. Maximum freedom of choice

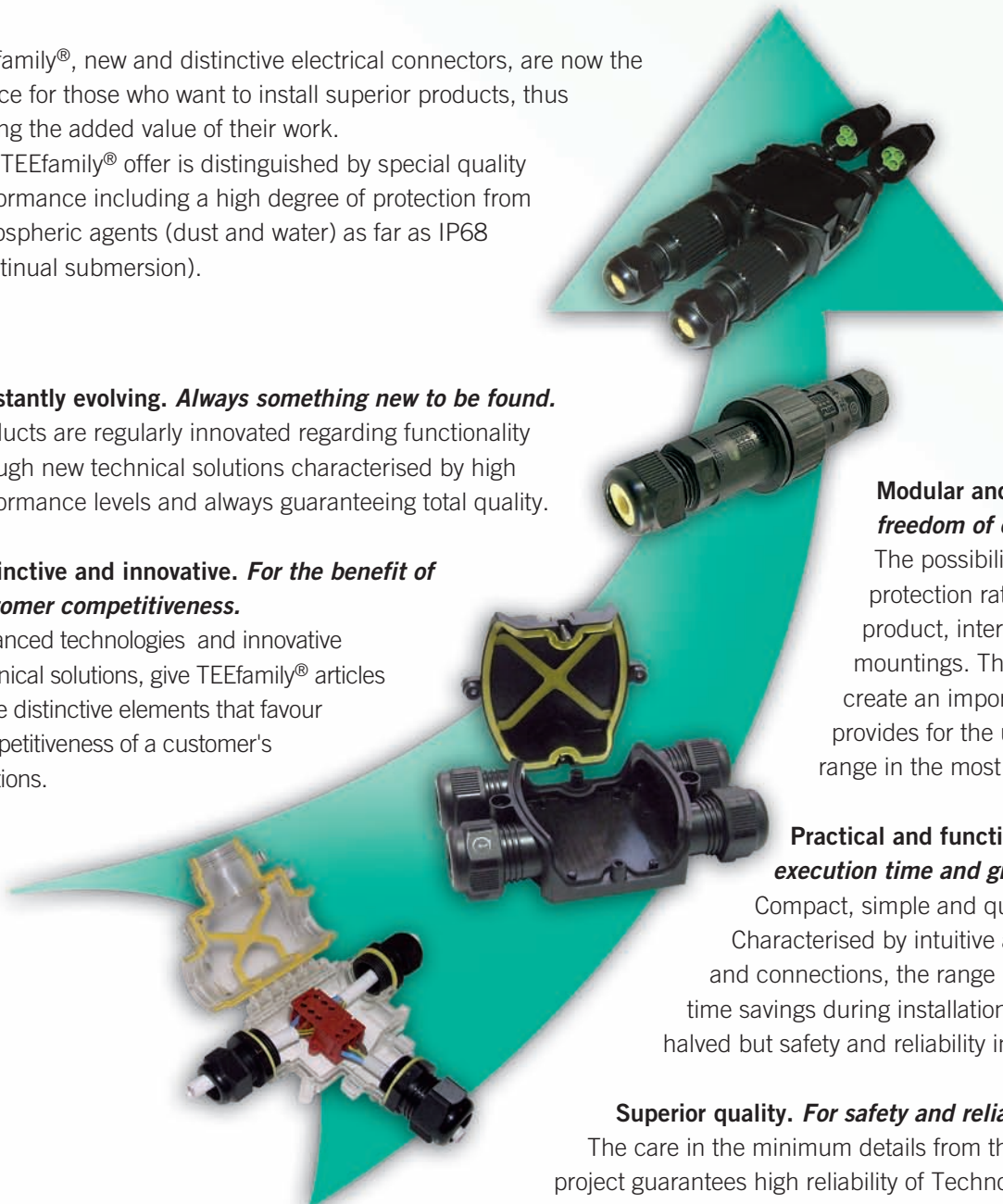
The possibility of having different IP protection ratings for the same product, interchangeability, modular mountings. These and other features create an important factor which provides for the use of the TEEfamily<sup>®</sup> range in the most varied applications.

## Practical and functional. Reduced execution time and greater opportunities.

Compact, simple and quick to install. Characterised by intuitive and functional wiring and connections, the range provides considerable time savings during installation. Wiring times are halved but safety and reliability increase.

## Superior quality. For safety and reliability over time.

The care in the minimum details from the very beginning of the project guarantees high reliability of Techno products in their functioning in particular and heavy duty conditions.





# TEEfamily<sup>®</sup> promises new opportunities for business.

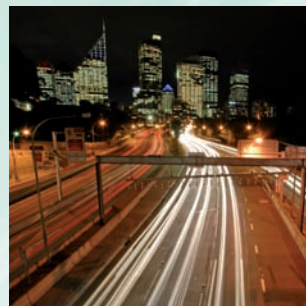
## The right protection for all conditions.

The high adaptability combined with the excellent technological value allow TEEfamily<sup>®</sup> connectors to be increasingly used in many industrial sectors. The TEEfamily<sup>®</sup> represent new solutions, ideal for high technical content applications: severe specifications when referring to rates of protection from atmospheric agents and dust (as far as IP68 - continual submersion) and reliable electrical and thermal characteristics of the product.

## The International mission.

Innovation, functionality and quality are the priorities that guide Techno's mission in the international market. Techno has begun a development programme of a new commercial network that today guarantees Techno's presence outside its national borders, in Europe, Eastern Europe, the Middle East, Asia, the Americas and Australasia.

**Foreign sales currently contribute some 50% of the annual sales turnover.**



# TEETUBE® / Mini-TEETUBE® (IP68 2bar – 5bar)

## Linear type Connecting solutions



### Total Protection. In order to chose in complete safety.

The **TEETUBE®** Family groups together linear insert connecting solutions with a high IP rating protection (as far as **IP68 2bar/5bar**).

The **Mini-TEETUBE®** Family offers with its reduced dimensions, protected installations where available space is limited. All of our products are designed to provide high performance return in time:

- Housing and Cable glands in polymer **PA66 FV V0/V2 UL94 (Yellow Card)** and a high mechanical and thermal resistance
- Yellow silicone gaskets with an excellent elasticity coefficient, aging resistance and complete adhesion to the housing
- Interchangeable rubber seals in **TPE-V** with total adhesion to all types of cables guaranteeing perfect watertightness.



### Liberty is the key word to give added value to your work.

A complete range that provides to every installation requirement the appropriate technical solution.

The **TEETUBE®** items are available in different dimensions and shapes: **I, L, T and Y** (see page 22).

The use of the **modular connecting solutions TEEDRUM®** (see page 22) permits to have protected connections with **2, 3, 5, 6, 2+2 and 3+3 poles**.

### Care in detail provides safety and trustworthiness to the installation.

Our solutions are designed with extreme care for particulars and made with absolute precision. The towers on the housing gives improved restraint of the gaskets subject to the cable gland pressure during tightening assuring in this manner a total **protection from external agents (IP68)**.





## Some applications.

The TEETUBE® is the ideal choice to give added value to an electrical installation of products and systems in many industrial sectors. Its dimensions and technical characteristics, for example, provide the right connection in reduced spaces or for systems that need high protection requirements.

Photograph to the side:

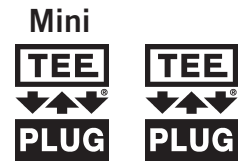
1. "Piros" by Targetti with a protected solution using the linear connection TEETUBE® TH400 with 3 poles (IP68) - External lighting.
2. "Nanofocus" by Simes with a protected solution using the linear connection TEETUBE® TH400 with 3 poles (IP68) - External lighting.
3. Spa with protected solutions using a linear connection TEETUBE® TH401 with 3+3 poles (IP68) - Hydro-sanitary.







# TEEPLUG® / Mini-TEEPLUG® (IP20, IP40, IP54, IP65, IP66, IP68 5mt)



Plug-socket connecting solutions

**Creativity, innovation and patents.  
This is product competitiveness and novelty.**

The **TEEPLUG®** and **Mini-TEEPLUG®** Family groups together solutions for plug-socket connection with a high IP rating protection degree (**as far as IP68 to 5 metre depth**). The reduced dimensions of the Mini-TEEPLUG®, maintain product and electrical characteristics of the larger versions, but are ideal where available space is limited. All of our products are designed to provide high performance return in time:

- Housing and cable glands in polymer **PA66 V2 UL94 (Yellow Card)** with high mechanical and thermal resistance
- Silicon gaskets with an excellent elasticity coefficient, aging resistance and complete adhesion to the housing
- Interchangeable rubber seals in **TPE-V** material with total adhesion to all types of cables guaranteeing perfect watertightness



## Time savings for better opportunities.

Plug and socket connections are easy to be inserted (*see page 26*) and provide protected **2, 3, 5 and 6 pole** connections. Plug and socket have nickel or silver plated inserts with zinc passivated steel M3 anti-screw screws. TEEPLUG® products are **easy and intuitive to use** thanks to the fast locking - unlocking system. IP68 versions are provided with a **lock nut to guarantee better protection** of product from external agents and **safe installation**.



to open



to open



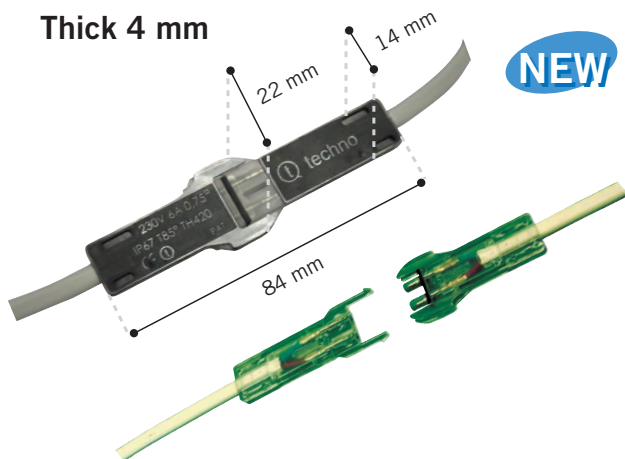
to open

## TEEPLUG<sup>®</sup> does not fear any surface.

The **new self-locking protected plug and socket connection TEEPLUG<sup>®</sup> TH386** is particularly suitable for mounting on flat or curved surfaces or in unfavourable conditions (i.e. limited spaces, not linear surfaces, blind surfaces etc.). The innovative fixing connection system of only one action point, permits quick anchorage on any surface. **Maintenance operations become fast, safe, easy to repair and/or substitute.**



Thick 4 mm



## When size matters.

The **TEEPLUG<sup>®</sup> TH420** is the latest revolutionary proposal with an ultra slim 4mm thick plug and socket connection (IP67).

An innovation for electrical connectionist is most suitable for applications in limited spaces and where fast connections are required.

The TH420 in polymer PC FV V2 UL94 with high mechanical and thermal resistance is supplied pre-wired and is available in a 2 pole version - 0,75 mm<sup>2</sup> 6A 230V.





# TEEBOX®

(IP20, IP44, IP54, IP65, IP66, IP67, IP68 5mt)



## Protected boxes Connecting solutions

### Technological richness for quality installations.

**TEEBOX®** Family groups terminal blocks and protected boxes (1, 2, 3 or 4 way) having small and medium dimensions with different technical features and IP ratings. All products are designed to provide high performance return in time:

- Housing in polymer **PA66 V2 UL94 (Yellow Card)** with high mechanical and thermal resistance
- Interchangeable rubber seals in **TPE-V** material with total adhesion to all types of cables guaranteeing perfect watertightness.



### Personalized connections. Maximum value.

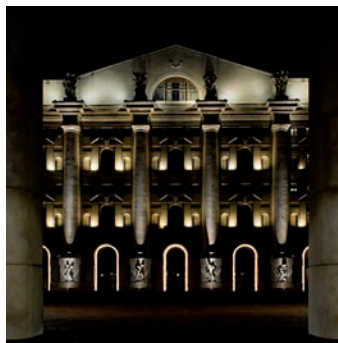
The use of **TEEBLOCK®** modular solutions (see Page 16) allow the choice with **2, 3, 5, 6, 2+2 and 3+3 pole** connections. The **versatility** of the TEEBOX® allows the customer to use it in various methods with standard terminal blocks, electronic circuits boards, corrugated conduits and other applications.

### Some applications.

The TEEBOX® is the technical answer for every type of installation. Versatility and high IP rating give the right choice for all applications.

Photograph to the side:

- Milan Stock Exchange, by Blachère, using protected solutions TEEBOX® TH200 (IP67) and TEEPLUG® TH384 with 2 and 3 poles (IP68) - External lighting.

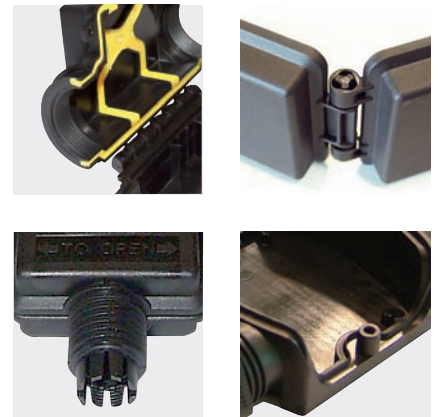






### Work excellence. Distinctive values over time.

The border tight closure is designed to ensure a **perfect seal between the base and lid even in a vertical installation.** The SEBS bi-moulded gasket provides a very good protection against external agents while maintaining a perfect chemical and mechanical adherence. This gives complete **product reliability and safety.**

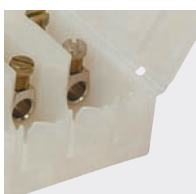
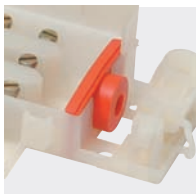


### Small dimensions (13 mm height). Best Quality.

Each product is studied in detail. **TEEBOX<sup>®</sup>** terminal blocks (13 mm height) are supplied with nickel plated brass metal inserts and zinc passivated steel anti-screw screws.

Installation times are reduced thanks to the **fast locking-unlocking system** by using slight pressure with a screwdriver.

**TPE-V** seals are easy to insert and allow **complete and safe closure and adherence to different types of cable.**



# TEEBOX® - CURRENT DISTRIBUTORS (IP20, IP40, IP54, IP65, IP66, IP68 5mt)



## Protected current distributors

### New opportunities for your business.

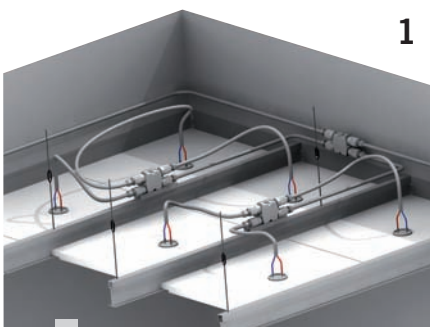
The integration of **TEEBOX®** and **TEEPLUG®** (see page 10 and 12) products generates a series of **Current Distributors** with high IP grade (**up to IP68 at 5 m depth**).

Designed to facilitate the connecting and disconnecting of electronic installations or other applications, the TEEBOX® current distributor range is available in the following versions:

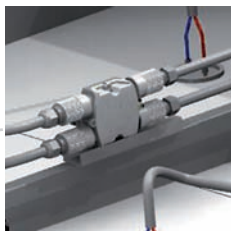
- **3 ways** pre-wired
- **4 ways** pre-wired
- custom made **4 ways**, according to customer needs

All current distributor range is manufactured with high quality materials **PA66 V2 UL94 yellow card** with high mechanical and thermal resistance.

TEEBOX® current distributors series incorporates all technical and functional features of TEEBOX® and TEEPLUG® Families.



1



### Some applications.

TEEBOX® current distributors range is a perfect functionality and reliability for electrical products as they can be considered the best solution on the market.

Photograph to the side:

1. Installation for ceiling lighting, using a protected TEEBOX® Current Distributor TH622 (IP20 and IP40) - Internal lighting.
2. Tram Lighting Milan, Italy by Blachère, using protected TEEBOX® TH200 (IP68) - External lighting.



2



## Technology that adapts to customer needs.

The versatility of the **TEEBOX® Current Distributor** allows the customer to **personalise the item** by selecting between different components according to technical characteristics needed, weather conditions and available installation space.

The simple act of inverting of the terminals determines the polarity of the connector. The chosen **TEEPLUG®** plug-socket connection provides for the **different degrees of protection according to use** (indoor or outdoor).

**Easy and practical to use**, the electrician only needs to wire the cables within the respective plug-socket connections.



### CABLE INPUT

Available two versions:  
Max  $\varnothing$  9.5 mm  
Max  $\varnothing$  14 mm

IP20



IP40



IP54

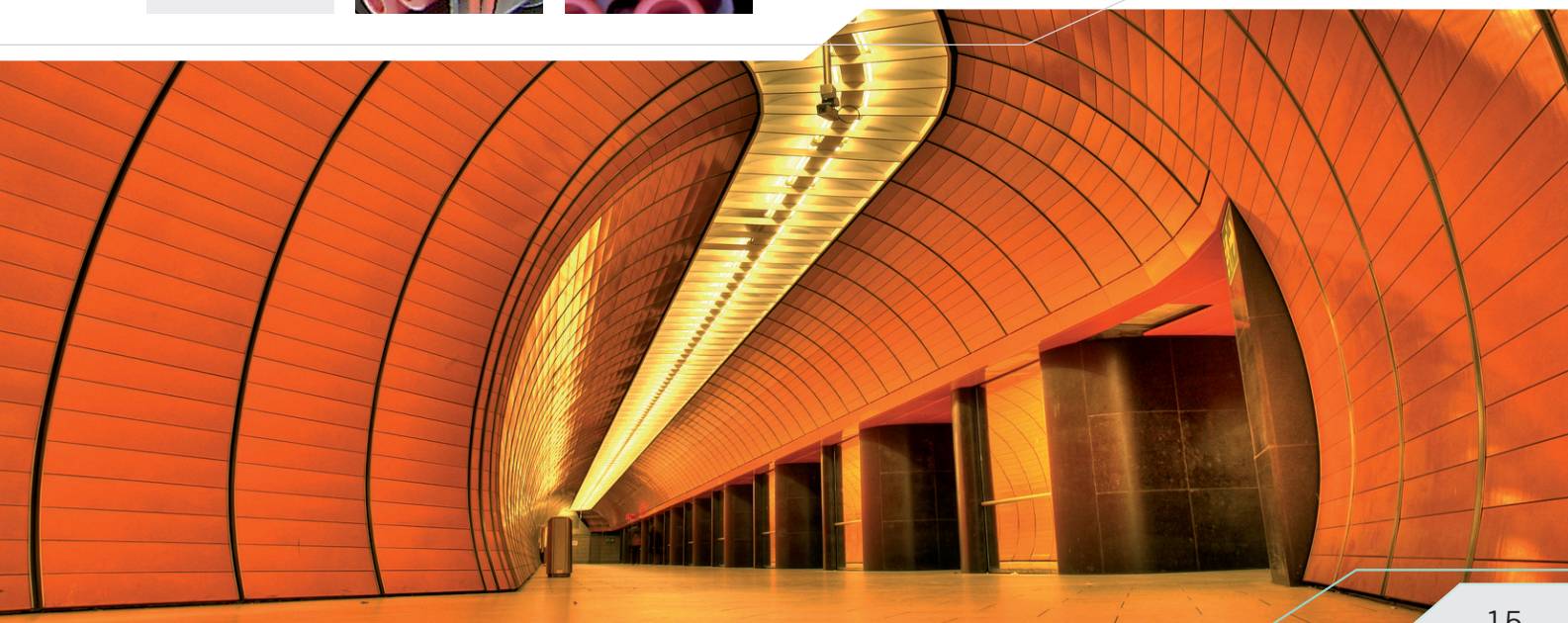
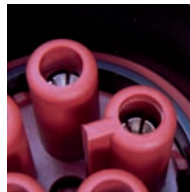


IP68



## Detail give Innovation.

Today more than ever a connection does not only satisfy the requirements of technology and performance but responds also to the needs of security and trustworthiness in time: 2 round gaskets on the plug side and a square gasket on the socket side guarantee **perfect protection from external agents (IP68)**.





# TEEBLOCK® e TEEDRUM®

Compact linear and round terminal blocks with metal insert



## Modularity. TEEfamily® variable fundamentals.

The **TEEBLOCK®** and **TEEDRUM®** Family groups together compact and modular solutions of circular and linear insert terminals.

They can be used individually or installed in protected housings which can provide **a totally protected connection (as far as IP68, fully submersible):**

- TEEDRUM® for the TEETUBE® range
- TEEBLOCK® for the TEEBOX® range

All TEEDRUM® and TEEBLOCK® products are made with high quality polymer, **PA66 FV V0 UL 94 (Yellow Card)** with high mechanical and thermal resistance.

A full range of modular connections give the liberty to choose from different versions of 2, 3, 4, 5, 6, 2+2 and 3+3 poles.

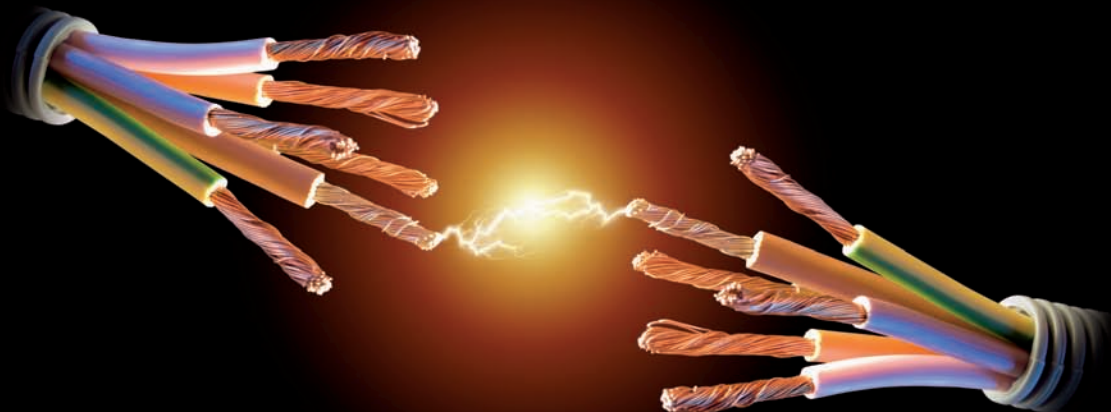


## Details that make the difference.

During the **project** and design, careful attention was made to ensure **reliability** and **safety**.

The external plastic shell improves connection protection. The towers near the screws avoid accidental contact with live parts.

Metal inserts are nickel plated brass with zinc passivated anti-screw screws and available in different versions.



## Innovation a prerogative for success.

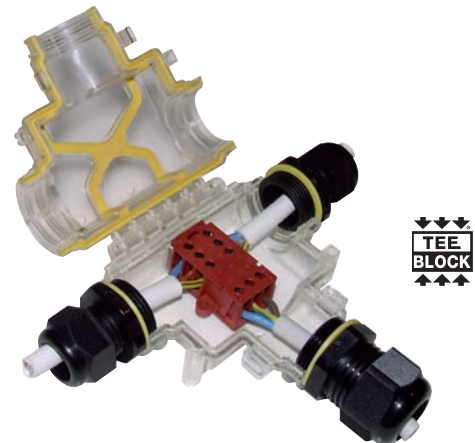
A **new development** presented by Techno is a **current distributor block**.

The wiring is intuitive and guarantees correct connection of cables according to the right polarity thanks to the simple but effective internal circuit.

**Easy to install and time saving**, it avoids the twisting together of wires.

This innovation is valid for both the **TEEDRUM®** and **TEEBLOCK®** Family.

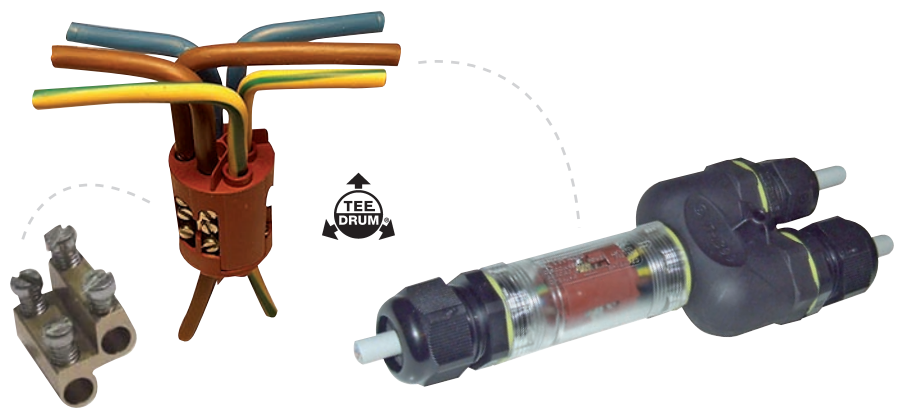
TODAY



YESTERDAY



TODAY



## Condensation.

### Maximum protection at all times.

Humidity by capillary action along a copper electrical wire frequently causes the continuous formation of condensation inside electrical equipment compromising its proper functioning.

Techno has the answer to avoid product malfunction caused by condensation by the use of a **special high quality black resin with an excellent insulation capacity that resists temperatures from -50°C to +100°C**.

The copper strand and metal inserts are completely enveloped by resin preventing any leakage from small holes.

The use of resin in the TEEfamily® range **strengthens electrical insulation resistance, Water-proof capacity and mechanical resistance of Techno products.**

On customer request all TEEfamily® solutions can be with resin to provide better quality and reliability to the products.

Techno constantly tests new raw materials to assure and improve product functioning.





# TEEGLAND® (IP68 5bar)



## High protection innovative cable glands

### Innovation that provides professional power.

The **TEEGLAND®** Family groups innovative cable glands with a **high IP rating protection (as far as IP68 5 bar) in polymer PA66 V2 UL94** with high mechanical and an excellent elastic resistance.

TEEGLAND® cable glands are available in:

- M16 / PG9 thread
- M20 thread
- M25 thread



### Techno has renewed the cable gland.

The TEEGLAND® has several distinctive features which providing advantages for the customer. They distinct themselves for quality and innovation from other cable glands available on the market.

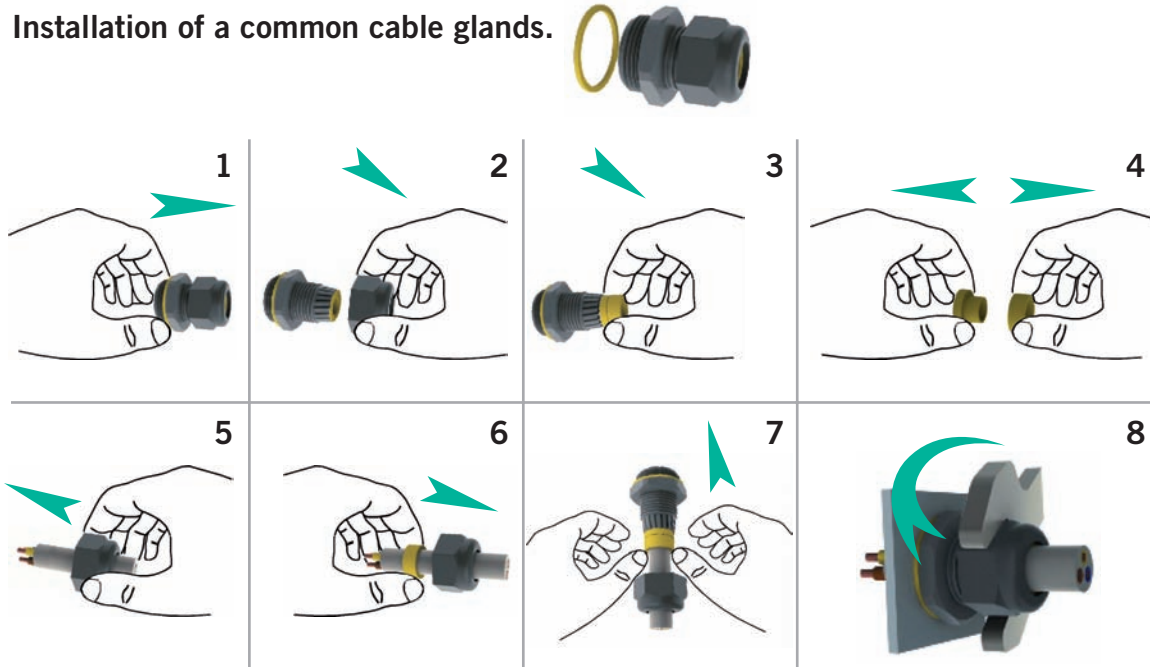


Coloured versions on request





## Installation of a common cable glands.

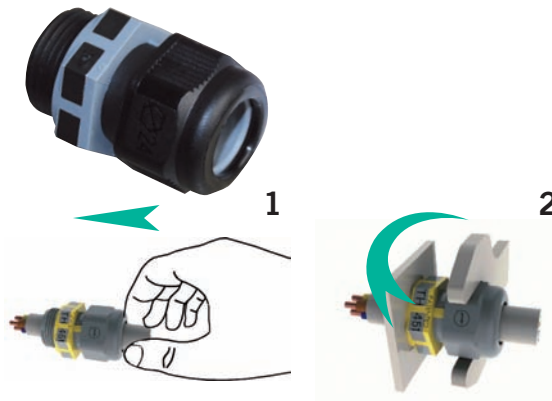


## TEEGLAND<sup>®</sup>. Made to be different.

The use of TEEGLAND<sup>®</sup> cable glands allows time savings during installation.

**The connection of a cable is made in 2 steps:**

- push the cable through
- re-screw the nut tight



The rubber gasket is also co-moulded near the thread. This provides additional reliability and safety, avoiding the need for additional seals on the gland thread.



The TEEGLAND<sup>®</sup> cable gland is co-moulded using a techno-polymer TPE-V which provides a perfect mechanical and chemical adhesion to the gland body guaranteeing a valid protection from external agents (water and dust). Thanks to this technology, the rubber will not detach accidentally during cable insertion. This ensures product reliability.



In confirmation to the TEEGLAND<sup>®</sup> cable glands high quality and functionality, the internal circular crown rubber provides a perfect adhesion. It is not necessary to use other rubber seal. Installation times are drastically reduced.



# TEEBOND®

## Quick locking cable clamps



### The solutions for every situations.

The **TEEBOND®** Family groups innovative **quick locking cable clamps in polymer PA66 V2 UL94 (yellow card)** with high mechanical and thermal resistance.

The **TEEBOND®** range is a valid solution for standard installations or other particular conditions.

**The innovative quick locking screwless cable clamp TH006 is fast and possible to use in many complex wiring situations even for those already completed.**

It is sufficient to wrap the cable clamp around the cable and close it.



Techno's product innovations allow to offer a **screwless cable clamp with gradual hooking: the TH007.**

The special hinge clamp with gradual hooking clips makes it possible to regulate cable fixing pressure.

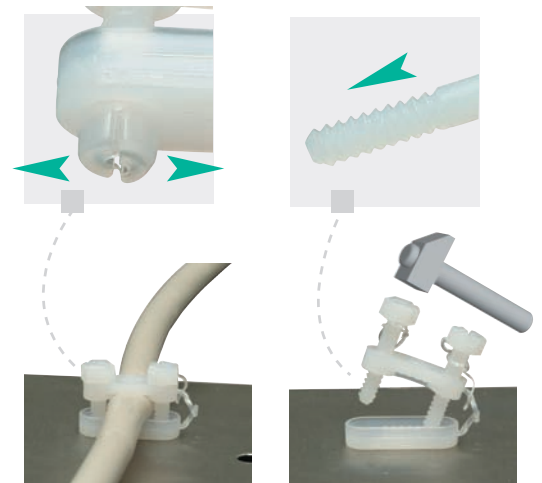
For **further protection** a version with a **TPE-V** gasket to protect it from external agents is available.



### The quick locking cable clamp TH005 with quick-grip nylon screws is intuitive and allows a quick fastening of the cable.

To fix the cable and the cable clamp it is sufficient to make two holes and use a hammer.

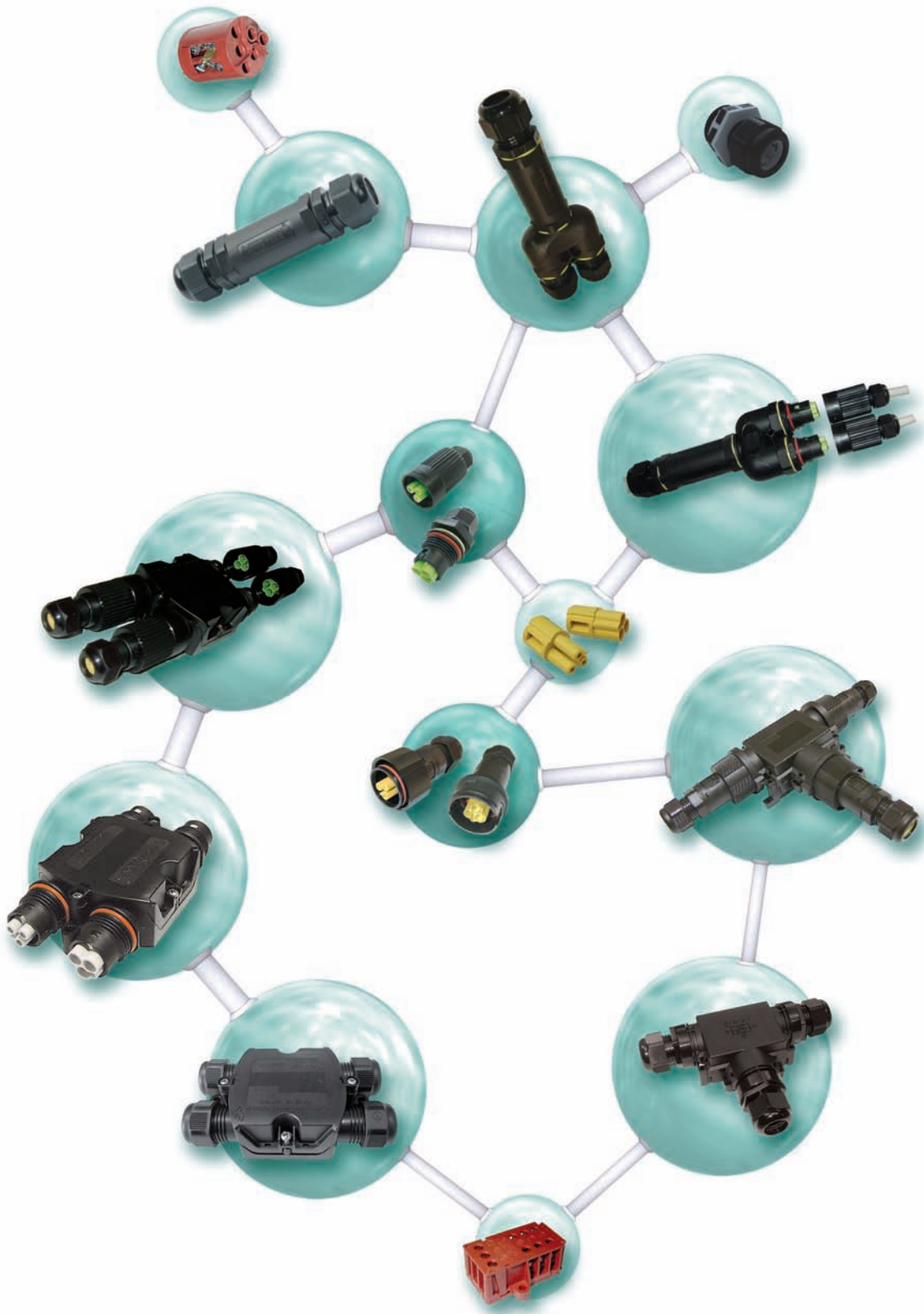
The screws gradually enter the holes. The quick-grip screws grip the two fins and do not require to be screwed as the two fins expand and fix the cable clamp onto the support.



## TEEfamily<sup>®</sup>. The constant product development.

From simple connections to protected solutions, reaching products generated by interconnecting separate families. The TEEfamily<sup>®</sup> is a wide range of products that allows customising electrical connections for specific needs. A meeting point between innovation and creativity.













**Modularity and family combinations** are the key words to give maximum value to customers.





## Compact round terminal blocks



TH020 PATENTED	TH020 PATENTED	TH020 PATENTED	TH021 PATENTED	TH021 PATENTED
<p><b>IP00</b></p>  <p>2 POLES</p>  <p>3 POLES</p> <p>T 125 - 4<sup>□</sup> - 32A - 450 V~</p> 	<p><b>IP00</b></p>  <p>5 POLES</p>  <p>6 POLES</p> <p>T 125 - 4<sup>□</sup> - 32A - 450 V~</p> 	<p><b>IP00</b></p>  <p>DISTRIBUTOR 2+2 POLES 3+3 POLES</p> <p>T 125 - 4<sup>□</sup> - 32A - 450 V~</p> 	<p><b>IP20</b></p>  <p>2 POLES</p>  <p>3 POLES</p> <p>T 125 - 4<sup>□</sup> - 32A - 450 V~</p> 	<p><b>IP20</b></p>  <p>5 POLES</p> <p>T 125 - 4<sup>□</sup> - 32A - 450 V~</p> 

## Linear type connecting solutions



	TH390 PATENTED	TH390 PATENTED	TH390 PATENTED	TH399 PATENTED
 <p>CABLE UP TO 6<sup>□</sup></p>	<p><b>IP68 - 5bar</b></p>  <p>2 POLES - 3 POLES T 85 - 4<sup>□</sup> - 32A - 450 V~</p> 	<p><b>IP68 - 2bar</b></p>  <p>2 POLES - 3 POLES T 85 - 4<sup>□</sup> - 32A - 450 V~</p> 	<p><b>IP68 - 2bar</b></p>  <p>2 POLES - 3 POLES T 85 - 4<sup>□</sup> - 32A - 250 V~</p> 	<p><b>IP68 - 2bar</b></p>  <p>2 POLES - 3 POLES T 85 - 4<sup>□</sup> - 32A - 250 V~</p> 






## Linear type connecting solutions



TH400 PATENTED	TH400 PATENTED	TH401 TH402 PATENTED	TH401 TH402 PATENTED	TH399 PATENTED
<p><b>IP68 - 5bar</b></p>  <p>2 POLES - 3 POLES T 85 - 4<sup>□</sup> - 32A - 450 V~</p> 	<p><b>IP68 - 5bar</b></p>  <p>5 POLES - 6 POLES T 85 - 4<sup>□</sup> - 32A - 450 V~</p> 	<p><b>IP68 - 2bar</b></p>  <p>2 POLES - 3 POLES 5 POLES - 6 POLES T 85 - 4<sup>□</sup> - 32A - 450 V~</p> 	<p><b>IP68 - 2bar</b></p>  <p>2 POLES - 3 POLES - 5 POLES - 6 POLES 2+2 POLES - 3+3 POLES T 85 - 4<sup>□</sup> - 32A - 250 V~</p> 	<p><b>IP68 - 2bar</b></p>  <p>2 POLES - 3 POLES - 5 POLES - 6 POLES 2+2 POLES - 3+3 POLES T 85 - 4<sup>□</sup> - 32A - 250 V~</p> 







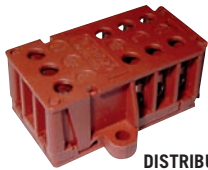


## Available applications



 <p><b>TRANSPARENT VERSION*</b> (i.e. Electronic circuit)</p>	 <p><b>CABLE GUIDE*</b></p>	 <p><b>ADAPTER FOR CORRUGATED PROTECTIVE COVERING*</b></p>	 <p><b>ADAPTER FOR METALLIC PROTECTIVE COVERING*</b></p>	 <p><b>ACCESSORIES</b></p>
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## Compact linear terminal blocks



TH026	TH026	TH027	TH029 PATENTED	
 <p><b>IP00</b> 5 POLES 2 POLES 3 POLES</p> <p>T 125 - 4<sup>□</sup> - 32A - 450 V~</p> <p>CE </p>	 <p>5 POLES 2 POLES 3 POLES</p> <p>T 200 - 4<sup>□</sup> - 32A - 450 V~</p> <p>CE </p>	 <p>2+2 POLES 3+3 POLES</p> <p>T 125 - 6<sup>□</sup> - 41A - 450 V~</p> <p>CE </p>	 <p>DISTRIBUTOR 2+2 POLES 3+3 POLES</p> <p>T 125 - 4<sup>□</sup> - 32A - 450 V~</p> <p>CE </p>	 <p>CABLE UP TO 6<sup>□</sup></p>







## Protected boxes with 1/2/3 way connections



TH100 PATENTED	TH110 PATENTED	TH200 PATENTED	TH200 PATENTED	TH200 PATENTED
 <p><b>IP20</b> 2 POLES 3 POLES</p> <p>2,5<sup>□</sup> - 24A - 450 V~</p> <p>CE </p>	 <p><b>IP44</b> 2 POLES 3 POLES</p> <p>Cable Diameter Max <math>\varnothing</math> 10 mm 2,5<sup>□</sup> - 24A - 450 V~</p> <p>CE </p>	 <p><b>IP54</b></p> <p>FOR HIGH TEMPERATURES*</p> <p>CE T 200</p>	 <p><b>IP54</b></p> <p>WITH TWO EXIT*</p> <p>CE</p>	 <p><b>IP54</b></p> <p>TRANSPARENT VERSION*</p> <p>CE</p>


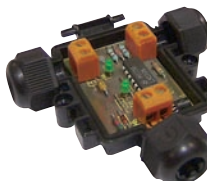



## Protected boxes with 3 way connections



TH200 PATENTED	TH200 PATENTED	TH200 PATENTED	TH200 PATENTED	TH200 PATENTED
 <p><b>IP54</b></p> <p>Cable Diameter Max <math>\varnothing</math> 9 mm</p> <p>CE</p>	 <p><b>IP67</b></p> <p>Cable Diameter Max <math>\varnothing</math> 9 mm</p> <p>CE </p>	 <p><b>IP54 - IP67</b></p> <p>SPRING TERMINAL BLOCK*</p> <p>CE</p>	 <p><b>IP54 - IP67</b></p> <p>TH026 (2-3 POLES)</p> <p>CE</p>	 <p><b>IP54 - IP67</b></p> <p>TH026 (5 POLES)</p> <p>CE</p>







## Protected boxes with 3 way connections



TH200 PATENTED	TH200 PATENTED	TH200 PATENTED	TH200 PATENTED	TH200 PATENTED
 <p><b>IP54 - IP67</b></p> <p>STANDARD TERMINAL BLOCK 8/10 PITCH*</p> <p>CE</p>	 <p><b>IP54 - IP67</b></p> <p>ELECTRONICS BOARD*</p> <p>CE</p>	 <p><b>IP54 - IP67</b></p> <p>TH029 DISTRIBUTOR</p> <p>CE 2+2 POLES - 3+3 POLES</p>	 <p><b>IP54 - IP67</b></p> <p>CABLE GUIDE*</p> <p>CE</p>	 <p><b>IP54 - IP67</b></p> <p>TRANSPARENT FOR LED*</p> <p>CE</p>





## Protected boxes with 3 way connections



TH211	TH211	TH211	TH211	TH211
				
IP54 IP65	IP54 IP65	IP54 IP65	IP54 IP65	IP54 IP65
Cable Diameter Max $\varnothing$ 17 mm DIFFERENT COMBINATION OF CABLE OUTPUTS	TRANSPARENT VERSION*	ELECTRONICS BOARD	TH029 DISTRIBUTOR (2+2 and 3+3 POLES)	TH027 (2+2 and 3+3 POLES)
CE 	CE	CE	CE	CE







## Protected boxes with 3 way connections



TH211	TH211	TH211	TH211	TH211
				
IP54 IP65	IP54 IP65	IP54 IP65	IP54 IP65	IP54 IP65
SPRING TERMINAL BLOCK*	TH026 (8 POLES)	TH026 (6 POLES)	STANDARD TERMINAL BLOCK 8 PITCH*	STANDARD TERMINAL BLOCK 10 PITCH*
CE	CE	CE	CE	CE






## Protected boxes with 4 way connections



TH209	TH209	TH209	TH209	TH209
				
IP54 IP66 IP68	IP54 - IP66 - IP68	IP54 - IP66 - IP68	IP54 - IP66 - IP68	
DIFFERENT COMBINATION OF CABLE OUTPUTS	TRANSPARENT VERSION*	TH026 (3+3 SEPARATED POLES)	TH026 (8 POLES)	ACCESSORIES
CE 	CE	CE	CE	

## Protected boxes with 4 way connections



TH209	TH209	TH209	TH209	TH209
				
IP54 - IP66 - IP68	IP54 - IP66 - IP68	IP54 - IP66 - IP68	IP54 - IP66 - IP68	IP54 - IP66 - IP68
TH026 (6 POLES)	TH027 (3+3 POLES)	ELECTRONICS BOARD	STANDARD TERMINAL BLOCK *	STANDARD TERMINAL BLOCK 12 PITCH*
CE	CE	CE	CE	CE







## Protected boxes with 4 way connections



<p><b>TH209</b></p> <p><b>IP54 IP68</b></p>  <p>STANDARD TERMINAL BLOCK 8 PITCH*</p> <p>CE</p>	<p><b>TH209</b></p> <p><b>IP54 IP68</b></p>  <p>STANDARD TERMINAL BLOCK 10 PITCH*</p> <p>CE</p>	<p><b>TH209</b></p> <p><b>IP54 IP68</b></p>  <p>ADAPTER FOR CORRUGATED PROTECTIVE COVERING*</p> <p>CE</p>	<p><b>TH209</b></p> <p><b>IP54 IP68</b></p>  <p>CABLE GUIDE*</p> <p>CE</p>	<p><b>TH219</b></p> <p>RESIN OR GEL <b>IP54 IP68</b></p>  <p>DIFFERENT COMBINATION OF CABLE OUTPUTS</p> <p>CE</p>
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## 4-way current distributors



<p><b>TH622</b></p> <p><b>IP20 - IP40 IP54 - IP68</b></p>  <p>10A - 16A 2 POLES - 3 POLES</p> <p>CE Nemko</p>	<p><b>TH622</b></p> <p><b>IP20</b></p>  <p>2 POLES - 3 POLES WITH TH380</p> <p>CE</p>	<p><b>TH622</b></p> <p><b>IP40</b></p>  <p>2 POLES - 3 POLES WITH TH382</p> <p>CE</p>	<p><b>TH622</b></p> <p><b>IP54 - IP68</b></p>  <p>2 POLES - 3 POLES WITH TH384</p> <p>CE</p>	<p><b>TH622</b></p> <p><b>IP20 - IP40 IP54 - IP68</b></p>  <p>WITH CLOSURE CAP AND SILICON BELT</p> <p>CE</p>
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## 4-way combined current distributors



<p><b>TH625</b></p> <p><b>IP20 - IP40 IP54 - IP68</b></p>  <p>MAX 16A COMBINATION BETWEEN 2 PLUGS AND 2 CABLES</p> <p>CE</p>	<p><b>TH625</b></p> <p><b>IP20</b></p>  <p>COMBINATION BETWEEN 2 PLUGS AND 2 CABLES</p> <p>CE</p>	<p><b>TH625</b></p> <p><b>IP40</b></p>  <p>COMBINATION BETWEEN 2 PLUGS AND 2 CABLES</p> <p>CE</p>	<p><b>TH625</b></p> <p><b>IP54 - IP68</b></p>  <p>COMBINATION BETWEEN 2 PLUGS AND 2 CABLES</p> <p>CE</p>	<p><b>TH625</b></p> <p><b>IP20 - IP40 IP54 - IP68</b></p>  <p>WITH CLOSURE CAP AND SILICON BELT</p> <p>CE</p>
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## 3-way current distributors



<p><b>TH630</b></p> <p><b>IP65</b></p> <p>with TH405</p>  <p>10A 2 POLES 5 POLES 3 POLES 6 POLES</p> <p>CE Nemko</p>	<p><b>TH630</b></p> <p><b>IP65</b></p> <p>with TH405</p>  <p>10A 2 POLES 5 POLES 3 POLES 6 POLES</p> <p>CE Nemko</p>	<p><b>TH630</b></p> <p><b>IP65</b></p>  <p>WITH CLOSURE CAP AND SILICON BELT</p> <p>CE</p>	<p><b>TH631</b></p> <p><b>IP65</b></p>  <p>24A 2 POLES 3 POLES</p> <p>CE Nemko</p>	<p><b>TH631</b></p> <p><b>IP65</b></p>  <p>16A 5 POLES 6 POLES</p> <p>CE Nemko</p>
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## Plug-socket connection modules



<p>CABLE UP TO 6<sup>□</sup></p>	<b>TH023 PATENTED</b> <b>IP00</b>  SOCKET 2 POLES 3 POLES PLUG T 125 - 4 <sup>□</sup> - 32A - 400 V~ 	<b>TH022 PATENTED</b> <b>IP00</b>  SOCKET 2 POLES 3 POLES PLUG T 125 - 4 <sup>□</sup> - 32A - 400 V~ 	<b>TH028 PATENTED</b> <b>IP00</b>  SOCKET 6 POLES PLUG T 125 - 4 <sup>□</sup> - 32A - 400 V~ 	<b>TH380 PATENTED</b> <b>IP20</b>  SOCKET 2 POLES 3 POLES PLUG 2,5 <sup>□</sup> - 25A - 400 V~ 
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## Compact protected plug-socket connections



<b>TH380 PATENTED</b> <b>IP20</b>  PROTECTIVE TUBE* 	<b>TH382 PATENTED</b> <b>IP40</b>  SOCKET 2 POLI 3 POLI PLUG 1,5 <sup>□</sup> - 16A - 400 V~ 	<b>TH382 PATENTED</b> <b>IP40</b>  CABLE GUIDE* 	<b>TH384 PATENTED</b> <b>IP54</b> <b>IP66</b> <b>IP68</b>  SOCKET 2 POLI 3 POLI PLUG 1,5 <sup>□</sup> - 16A - 400 V~ 	<b>TH384 PATENTED</b> <b>IP66</b> <b>IP68</b>  PANEL VERSION 
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## Compact protected plug-socket connections



 ACCESSORIES	<b>TH385 PATENTED</b> <b>IP66</b> <b>IP68</b>  M20 M25 	<b>TH386 PATENTED</b> <b>NEW</b> <b>IP66</b> <b>IP68</b>  SELF-LOCKING 	<b>TH388 PATENTED</b> <b>IP20</b>  SOCKET 2 POLES 3 POLES PLUG 	<b>TH388 PATENTED</b> <b>IP20</b>  SOCKET 5 POLES PLUG 
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## Protected plug-socket connections



<b>TH388 PATENTED</b> <b>IP20</b>  SOCKET 6 POLES PLUG 	<b>TH404 PATENTED</b> <b>IP65</b>  2 POLES T 125 - 2,5 <sup>□</sup> - 25A - 400 V~ 	<b>TH404 PATENTED</b> <b>IP65</b>  3 POLES T 125 - 2,5 <sup>□</sup> - 25A - 400 V~ 	<b>TH404 PATENTED</b> <b>IP65</b>  5 POLES T 85 - 1,5 <sup>□</sup> - 16A - 400 V~ 	<b>TH404 PATENTED</b> <b>IP65</b>  6 POLES T 85 - 1,5 <sup>□</sup> - 16A - 400 V~ 
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## Protected plug-socket connections



TH405 PATENTED	TH405 PATENTED	TH405 PATENTED	TH405 PATENTED	TH406 PATENTED
 <b>IP68 5mt</b> 2 POLES T 125 - 2,5 <sup>□</sup> - 25A - 400 V~  	 <b>IP68 5mt</b> 3 POLES T 125 - 2,5 <sup>□</sup> - 25A - 400 V~  	 <b>IP68 5mt</b> 5 POLES T 85 - 1,5 <sup>□</sup> - 16A - 400 V~  	 <b>IP68 5mt</b> 6 POLES T 85 - 1,5 <sup>□</sup> - 16A - 400 V~  	 <b>IP68 5mt</b> 2 POLES 3 POLES T 125 - 2,5 <sup>□</sup> - 25A - 400 V~  

## Protected plug-socket connections



TH406 PATENTED	TH406 PATENTED	TH404 TH405 PATENTED	TH404 TH405 PATENTED	TH420 PATENTED
 <b>IP68 5mt</b> 5 POLES 6 POLES T 85 - 1,5 <sup>□</sup> - 16A - 400 V~  	 PANEL VERSION WITH CLOSURE CAP AND SILICON BELT	 CABLE GUIDE*	 ADAPTER FOR PROTECTIVE COVERING*	 <b>NEW IP67</b> 2 POLES T 85 - 0,75 <sup>□</sup> - 6A - 230 V~  

## Quick locking cable clamps



TH005	TH006 PATENTED	TH007 PATENTED	
 Cable Diameter Max $\varnothing$ 10 mm 	 Cable Diameter Min-Max $\varnothing$ 6,5 mm 9 mm   CSV	 Cable Diameter Min-Max $\varnothing$ 6 mm 10 mm 	 TEEPLUG ACCESSORIES

## High protection innovative cable glands



TH450 PATENTED	TH451 PATENTED	TH452 PATENTED	TH450 TH451 TH452 PATENTED
 <b>IP68 - 5 bar</b> M16-PG9 Cable Diameter Min-Max $\varnothing$ 4 mm 9,5 mm  	 <b>NEW IP68 - 5 bar</b> M20 Cable Diameter Min-Max $\varnothing$ 7 mm 14 mm 	 <b>NEW IP68 - 5 bar</b> M25 Cable Diameter Min-Max $\varnothing$ 7 mm 17 mm 	 COLOURED VERSION ON REQUEST PG RANGE IN DEVELOPMENT

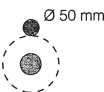

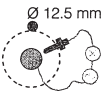



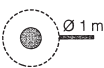

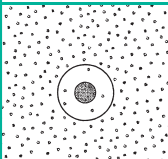
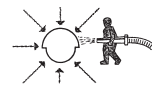
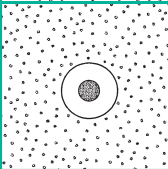
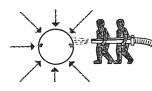
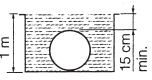
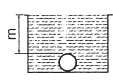


# DEGREE OF PROTECTION PROVIDED BY ENCLOSURES (IP Code)

Example: **IP68**

**First digit** Protected against solid bodies

**Second digit** Protected against liquids

First digit: Protected against solid bodies		Second digit: Protected against liquids	
<b>0</b>	Non protected	<b>0</b>	Non protected
<b>1</b>	Protected against solid foreign object of 50 mm $\varnothing$ and greater 	<b>1</b>	Protected against vertically falling water drops 
<b>2</b>	Protected against solid foreign object of 12,5 mm $\varnothing$ and greater 	<b>2</b>	Protected against vertically falling water drops when enclosure tilted up to 15° 
<b>3</b>	Protected against solid foreign object of 2,5 mm $\varnothing$ and greater 	<b>3</b>	Protected against spraying water 
<b>4</b>	Protected against solid foreign object of 1,00 mm $\varnothing$ and greater 	<b>4</b>	Protected against splashing water 
<b>5</b>	Dust-protected 	<b>5</b>	Protected against water jets 
<b>6</b>	Dust-tight 	<b>6</b>	Protected against powerful water jets 
		<b>7</b>	Protected against the effects of temporary immersion in water 
		<b>8</b>	Protected against the effects of continuous immersion in water 

The tables shown in this page are taken from IEC EN 60529 (CEI 70-1) standards.



**Techno S.r.l.**

Via Bancora e Rimoldi, 27 - 22070 Guanzate (CO) - Italy  
Tel. +39 031 976445 - Fax +39 031 976680

[www.techno.it](http://www.techno.it) - [info@techno.it](mailto:info@techno.it)