

CREATIVITY, TECHNOLOGIES  
AND MATERIALS

RETAIL PACKAGE (KIT)

Connection of street lighting LED Luminaires (Rome, Italy). Series TH405.



Partner  
for top  
performance



High-performance  
electrical connections  
[www.techno.it](http://www.techno.it)

MADE IN ITALY



High-protection solutions



# In-line Circular joint connectors

Ideal for connections in small spaces and with a high degree of protection (IP68).



## Quick, Re-accessible and Compact

Using the fewest number of components, we ensure that the product is installed in an easy way and in the least possible time.

Totally resin and gel-free, our TEETUBE® solutions are re-accessible even after long operating periods.

Availing ourselves of an innovative design and maximum precision in thermoplastic injection, we realize solutions which are considerably compact, with a high number of poles.





High-protection solutions



## Gasket co-molding

The quality of our materials, innovative proprietary technologies and an accurate analysis of the operative conditions of application allow us to realize and test solutions for electrical connections under the most extreme conditions. Therefore we have decided to supply the market with a revolutionary solution aimed to eliminate the resin sealing of boxes and connectors: **to mold the entire connector in only one solution.**



### High-quality materials

UL94 V0/V2 (f1) materials are suitable for underground installation and guarantee reliability over time.

**Products tested up to 10 years.**

### UV radiation resistant

UV radiation resistance test according to EN60079-0. Light ageing method (ISO 4892-2). Duration 1000 hours. Electrical insulation test up to 3.75kV.

### Anti-leakage gaskets

Perfect chemical-mechanical adherence of gaskets which guarantee robustness and reliability in water tightness. **No more installation faults.**

## Resistance to permanent immersion (IP68)



High-protection solutions



# No more condensation: completely insulated and sealed

Under particular environmental conditions, the accumulation of moisture inside the cable can cause the malfunctioning of electrical devices. The ventilation of the device is not often possible, especially when there is water, debris or in very small spaces. In this case the electrical connection is fundamental to ensure the reliability of the system.



## Reliability guaranteed under extreme conditions

The special anti-moisture barrier prevents the damp inside the cable from entering the connection and proceeding towards the device installed. TEETUBE® connectors are ideal for LED applications with the presence of water and debris (e.g. flooded junction boxes).



LED lighting, architectural, walkable, water submersion, fountains and swimming pools, trade fair stands, lighting displays, big areas.





High-protection solutions



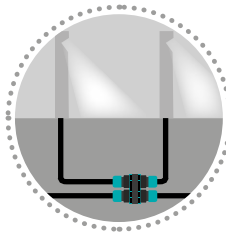
# Useful for total protection

TEETUBE® connectors can be used in the most various situations, for example in the connection of power and heating cables, as a protection of electronic circuits, in data and optical fiber connections, in motors and pumps.



## Simplified installation:

Pre-wired solutions. It is not necessary to open the box and realize complex wiring.



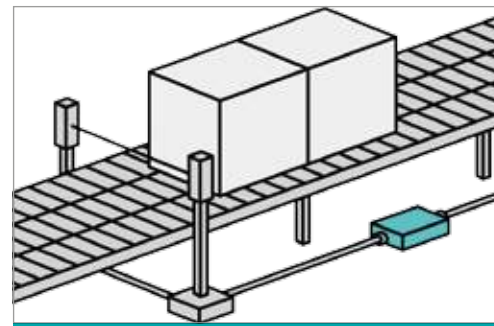
Submersible pumps and engines. Connectors and junctions IP68, resistant to moisture.



Wiring in shipbuilding and cooling containers.



Heating cables connection.



Quick connection junctions for industrial machines.

High-protection solutions



# Quick plug&socket connectors

High-performance cable, wall mount and special connectors (IP68).



## Robust and safe

The quick bayonet coupling junction ferrule with **safety lock-unlock system** guarantees higher resistance to vibrations and mechanical stresses (**guarantee of electrical continuity**). The disconnection is possible only by the use of a tool to prevent accidental displacement.

## Maximum resistance to tensile stress

Under adverse installation conditions (e.g. heavy embossed cables, strong impacts, vibrations, etc.), a special cable block-system ensures perfect resistance to stresses (e.g. tensile stress).



## Powerful and compact

The TEEPLUG® family is characterized by quick plug&socket connection solutions up to 25A 400V. Their compact dimensions are a strong point as an alternative to big industrial sockets with their electrical characteristics being the same.



## Total protection

To ensure better seal, two gaskets have been co-molded on the diameter and on the bottom of the connector to prevent water and dusts from penetrating it. The gaskets are anti-leakage.

IP68





High-protection  
solutions



# Maximum efficiency in installation and maintenance

The plug&socket connectors and quick junction boxes constitute a reliable modular interconnection system which is necessary to guarantee flexibility and quickness in the configuration of a more and more advanced plant. **Reduction of cost of the product installed.**



Lighting of the F1 circuit in Singapore with TH405 connectors.

Public lighting, urban furniture, smart city, CCTVs, data centers, electric signs, car charging stations, etc.

Our materials do not contain sulfur which has a negative effect on the LED lifespan.



High-protection solutions



## Dimensions that make the difference

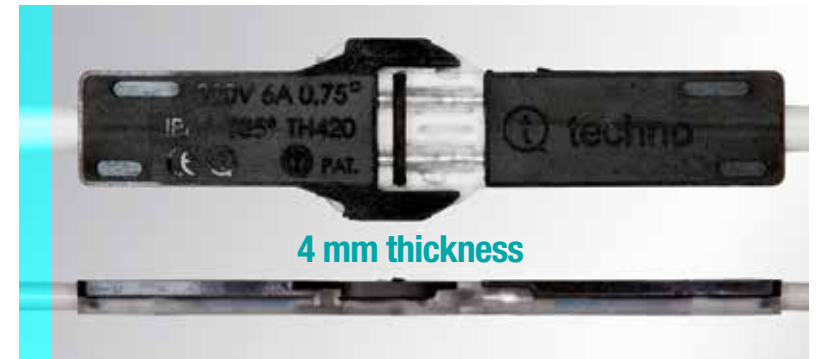
Compact screw wire connectors meet the most demanding needs of connections in small spaces.



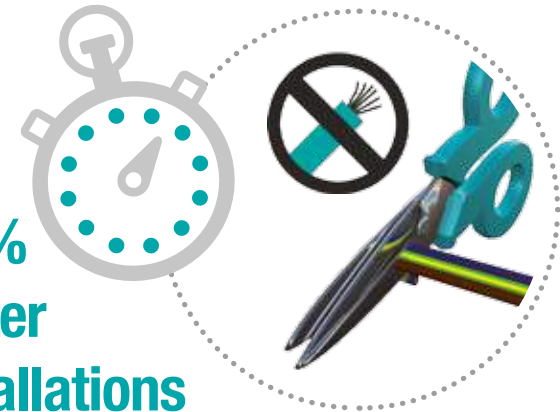
EN61984 certified piercing screw connector for flexible cables from 0.5 to 1.5 mm<sup>2</sup> (17.5A)

### Ultra flat connector.

It is the only 4mm thick connector IP67 on the international market. It has been specifically designed and produced to be used in floor heating plants.



-60%  
Faster  
installations



## Quick screw wire and piercing connectors

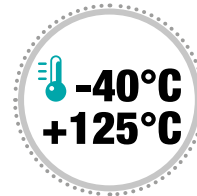
The wire does not need to be peeled. It is enough to cut the wire and insert it into the wiring terminal. The golden colour screw identifies the insulation piercing connectors. We have available also connectors with standard screw terminal, metal and spring terminal.





# Reliable under extreme conditions

We rely on materials and productive technologies of excellence. We perform stress tests on our products, in addition to the ones provided for by law, to obtain an extremely high level of resistance to moisture, water, dusts and aggressive chemicals. UL94 V2/V0 Yellow Card materials: their exceptional mechanical, temperature and temperature gradients resistance increases the advantages of use further in many sectors.



*Automation, industrial machines (wood, food and drinks, packaging, bottling, assembly, etc.), robots, control systems, industrial cleaning, engines, civil aeronautics.*



High-protection solutions



# Junction boxes and current distributors

Junction boxes with terminal blocks and plug&socket connectors for quick and flexible installations (IP68).



## Attention to minute details

The co-molding gasket guarantees fail-safe installations. The connection hinge between the top and the bottom, obtained directly from the molding of the product, simplifies the installation activities. Cable glands with milled claws built in the box allow the installation of small-section cables.





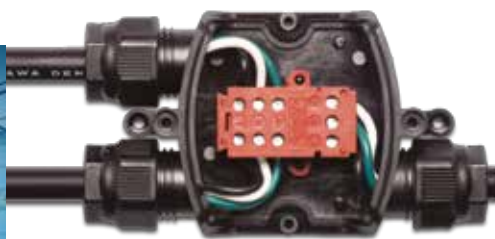
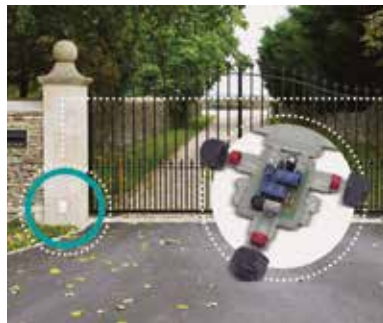
High-protection solutions



# Protected and compact for maximum versatility

Junction boxes approved up to IP68 guarantee water and dust proof connections without the use of resin or gel.

The boxes are re-accessible thanks to their compact dimensions, they are particularly suitable for connections in small spaces or containing electronic and electromechanical components.



Residential and industrial electrical installation, junction boxes, gates and doors automation, CCTVs, heating/air-conditioning.



# The highest performance in small space



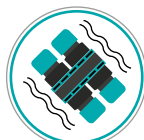
Resistance to external agents (EN60529). In addition: ageing test in air with ozone concentration (ISO1431-1).



Resistance in saline environment - Corrosion test (EN60068-2-11:2000).



Resistance to impact (NEMKO - EN62262:2002). IK08 and IP68 tests satisfactory even after conditioning in hydrochloric acid (HCl) for 168 hours at 70°C (pH 4,5 and 3,5). Available versions with IK10.



Resistance to vibrations (DEKRA - EN 60068-2-6; RINA RULES 2011 Pt C, Ch 3, Sec 6).



Resistance to flame. Use of materials reinforced with fiberglass UL94 V0/V2 (f1). Glow-wire 850°C/960°C.



Realized with materials compliant with the most rigorous Reach/RoHs regulations.

Upon request: low-smoke materials, EMC materials, resistant to ammonium versions. Search for materials and internal laboratory tests upon customer's specification.

Water treatment, monitoring, submersible pumps, energy distribution, petrol stations, mines, processing plant, irrigation, agriculture and cultivation, greenhouse.



Resistant to hydrocarbons (tested according to ISO1817:2001)



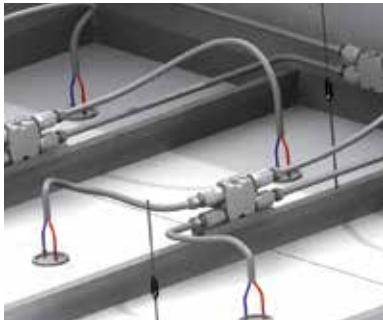


High-protection  
solutions



## Higher flexibility in the configuration of complex plants

3 and 4 ways electrical current distributors (pre-wired boxes with plug&socket connectors) designed to speed up the connection and disconnection of electrical networks and devices of various kind. The access to the terminal block inside the box is not required: it takes advantage of the simplicity and flexibility of a plug&socket connection.



*Railway, tram, underground, bus,  
navigation, shipbuilding, marine lighting,  
yacht, caravan, light signaling, cable car.*



# Innovative cable glands in co-molding

High-protection cable glands (IP68) for quick cable tying.



## Rigorously reliable

### Attention to details

The protective rubber is co-molded also where the cable gland is in contact with any supports. This gives it further reliability and safety, avoiding the use of OR on the thread of the cable gland.

The internal circular rubber crown ensure perfect tightness on the cable. A cable grommet is not needed anymore. Water tightness is guaranteed even in case of excessive nut tightening.

**max  
55N**

Approved according to **EN50262**.  
Cable tensile test **max.55N** passed.

**-50m  
(5bar/1h)**

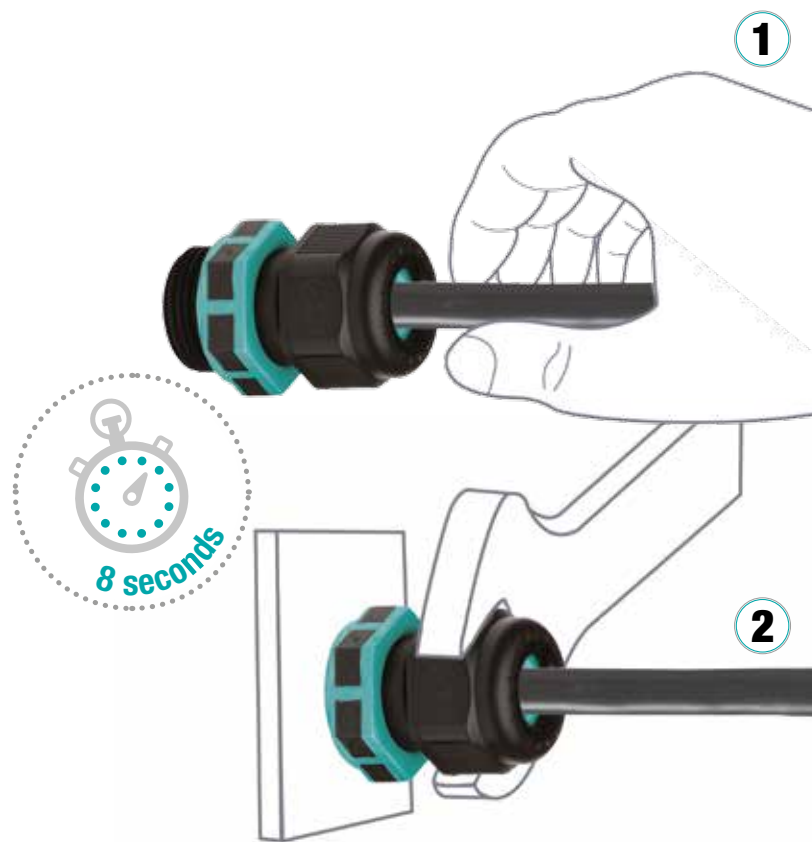
**IP68**





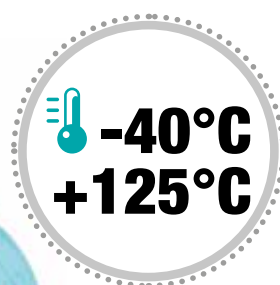
# More quickness

The use of the TEEGLAND® cable gland allows a considerable saving on installation time. The fastening of the cable and the installation of the cable gland on the panel take only 2-steps and less than 8 seconds.



# Fewer assembly faults

The co-molding of the rubber on the techno polymer ensures perfect installation compared to standard cable glands, where the detachment or the wrong position of the gaskets can impair its functioning. The rubber adheres chemically and mechanically to the plastic body and guarantees valid protection from external agents (IP68).

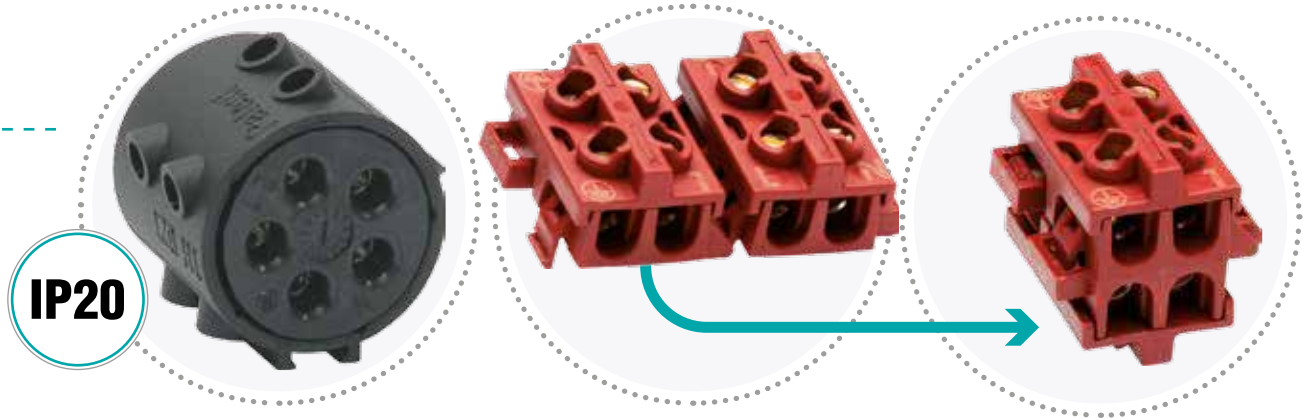


*Engines and pumps, heating, air-conditioning, ventilation, industrial refrigerators, SPA, hydro-massage, vending.*



# Compact circular connectors

Individually usable or with TEETUBE® circular joint connectors.

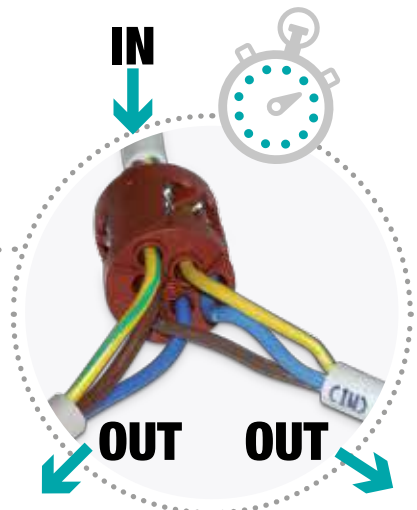
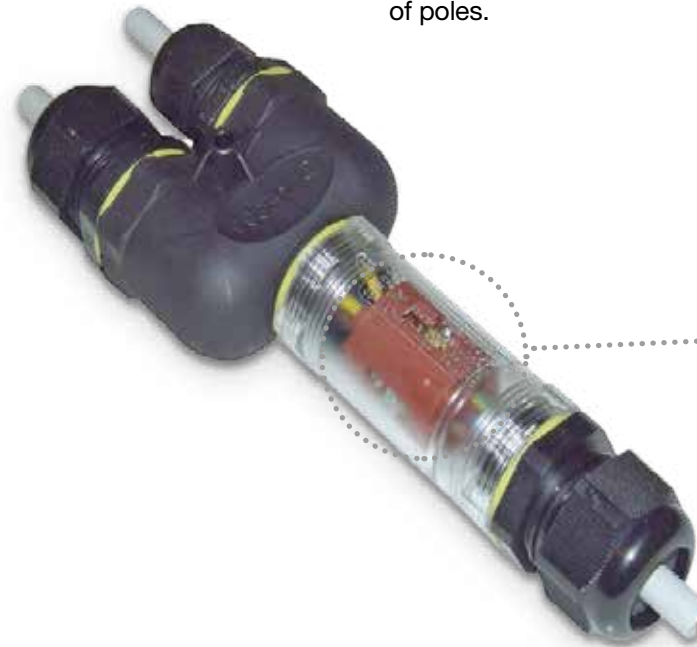


## Modular and compact

Circular connectors, more compact than standard terminal blocks with the same number of poles.

## Useful and versatile

The 4-way terminal block with a hinge makes cable wiring easier in particular situations such as automatic screwing in an industrial process.



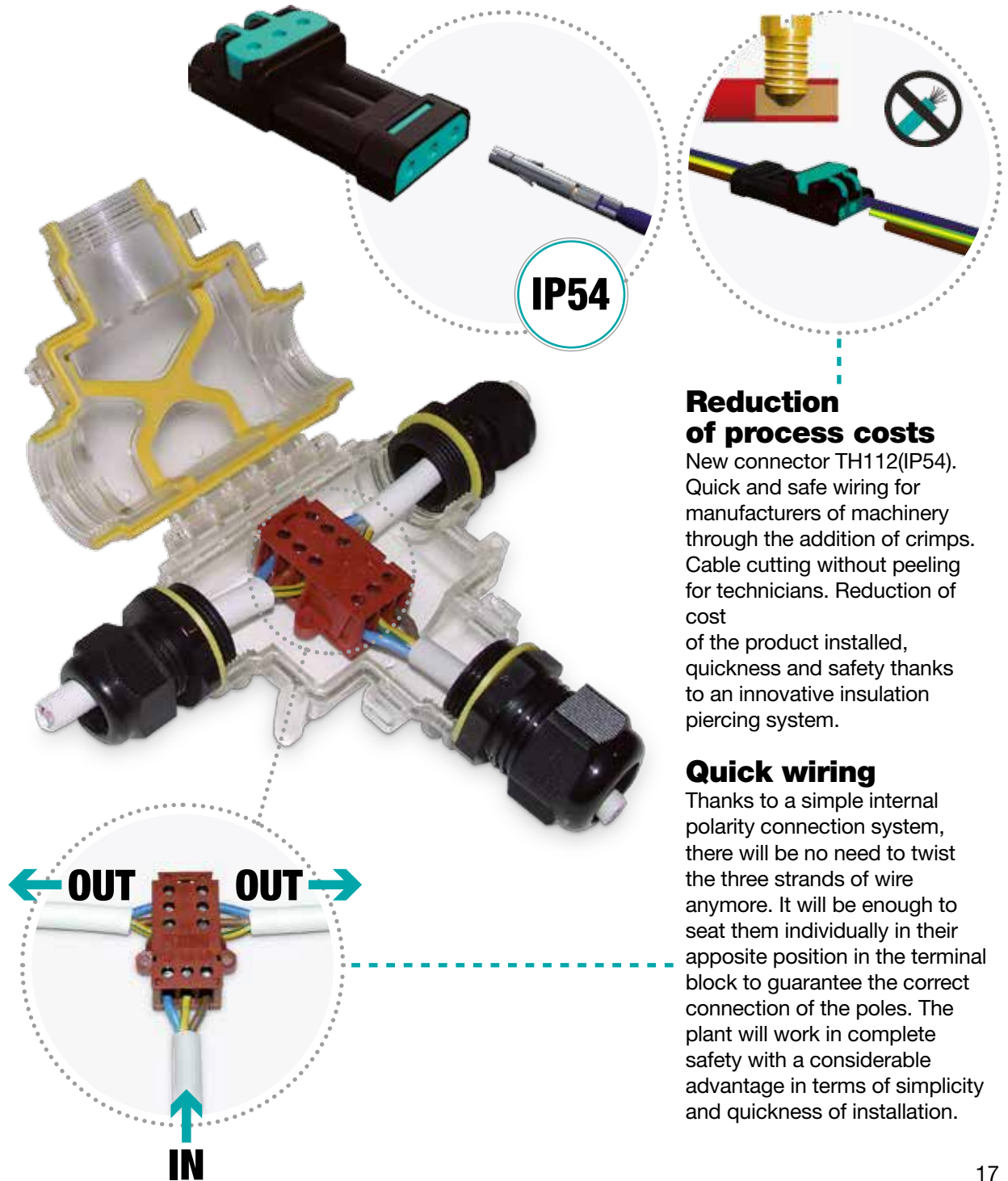
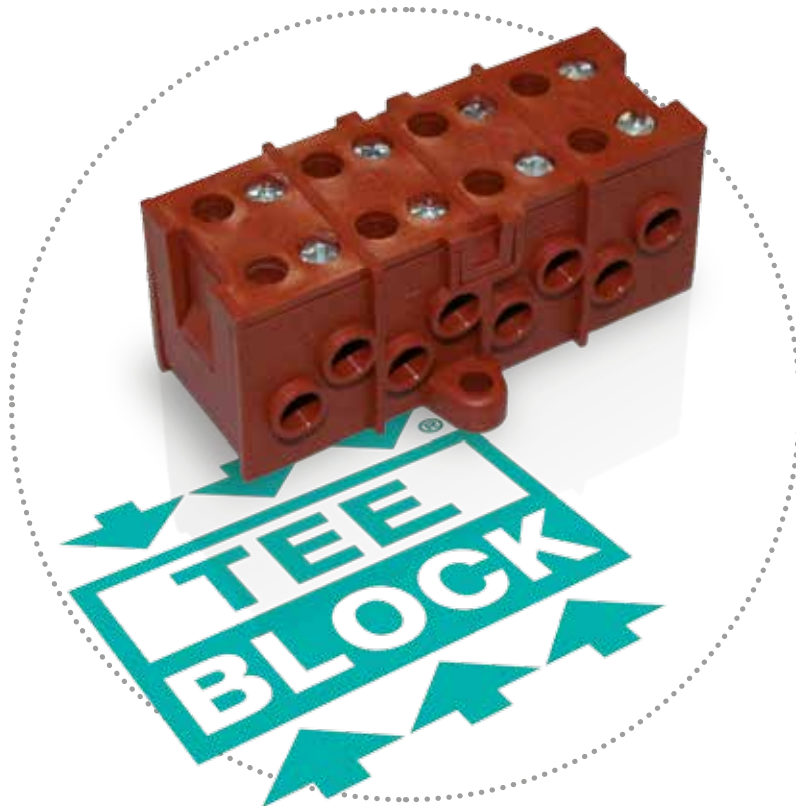


Connection solutions



# Compact linear connectors

Individually usable or with TEEBOX® junction boxes.



IP54

## Reduction of process costs

New connector TH112(IP54). Quick and safe wiring for manufacturers of machinery through the addition of crimps. Cable cutting without peeling for technicians. Reduction of cost of the product installed, quickness and safety thanks to an innovative insulation piercing system.

## Quick wiring

Thanks to a simple internal polarity connection system, there will be no need to twist the three strands of wire anymore. It will be enough to seat them individually in their apposite position in the terminal block to guarantee the correct connection of the poles. The plant will work in complete safety with a considerable advantage in terms of simplicity and quickness of installation.

# High-performance electrical connections TEEfamily<sup>®</sup> IP68

## Fixed connectors (re-accessible)

## Plug&Play connectors

### In-line connectors

Number poles<sup>(1)</sup>

Wire cross-section

Outer cable diameter<sup>(2)</sup>

IP protection degree



**TH391**

2 ... 4 poles

0.5 - 4.0 mm<sup>2</sup>

5.0 - 13.5 mm

IP68



**TH390**

2 ... 3 poles

0.5 - 4.0 mm<sup>2</sup>

6.0 - 13.5 mm

IP68



**TH400**

2 ... 6 poles

0.5 - 6.0 mm<sup>2</sup>

6.0 - 20.0 mm

IP68



**TH110**

2 ... 3 poles

0.5 - 2.5 mm<sup>2</sup>

5.0 - 9.0 mm

IP44



**TH381**

2 poles

0.25 - 1.0 mm<sup>2</sup>

5.0 - 8.0 mm

IP68

**TH387**

2 ... 5 poles

0.25 - 2.5 mm<sup>2</sup>

5.0 - 13.5 mm

IP68

**TH384**

2 ... 3 poles

0.5 - 2.5 mm<sup>2</sup>

5.0 - 12.0 mm

IP66/IP68

**TH405**

2 ... 6 poles

0.5 - 2.5 mm<sup>2</sup>

6.0 - 14.0 mm

IP68

### Junction connectors

#### 3 ways

Number poles<sup>(1)</sup>

Wire cross-section

Outer cable diameter<sup>(2)</sup>

IP protection degree



**TH390**

2 ... 3 poles

0.5 - 1.5 mm<sup>2</sup>

6.0 - 13.5 mm

IP68



**TH402**

2 ... 6 poles

0.5 - 4.0 mm<sup>2</sup>

6.0 - 20.0 mm

IP68



**TH399**

2 ... 6 poles

0.5 - 4.0 mm<sup>2</sup>

6.0 - 20.0 mm

IP68



**TH200**

2 ... 3 poles

0.5 - 1.5 mm<sup>2</sup>

2.5 - 9.5 mm

IP67



**TH211**

2 ... 4 poles

0.5 - 4.0 mm<sup>2</sup>

6.0 - 17.0 mm

IP65



**TH631**

2 ... 6 poles

0.5 - 2.5 mm<sup>2</sup>

6.0 - 14.0 mm

IP65



**TH370**

2 poles

2.5 - 6.0 mm<sup>2</sup>

6.0 - 12.0 mm

IP68

#### 4 ways

Number poles<sup>(1)</sup>

Wire cross-section

Outer cable diameter<sup>(2)</sup>

IP protection degree



**TH392**

2 ... 4 poles

0.5 - 2.5 mm<sup>2</sup>

5.0 - 13.5 mm

IP68



**TH209**

2 ... 8 poles

0.5 - 4.0 mm<sup>2</sup>

6.0 - 14.0 mm

IP68



**TH623**

2 ... 3 poles

0.5 - 2.5 mm<sup>2</sup>

5.0 - 12.0 mm

IP68



**TH624**

2 ... 5 poles

0.25 - 2.5 mm<sup>2</sup>

6.0 - 13.5 mm

IP68



Choose the connector that best suits your needs.

## Wall mount connectors

Number poles<sup>(1)</sup>

Wire cross-section

Outer cable diameter<sup>(2)</sup>

IP protection degree

### Fixed connectors (re-accessible)



**TH391**

2 .... 4 poles

0.5 - 4.0 mm<sup>2</sup>

5.0 - 13.5 mm

M20-M25

IP68

### Plug&Play connectors



**TH381**

2 poles

0.25 - 1.0 mm<sup>2</sup>

5.0 - 8.0 mm

M16

IP68



**TH387**

2 .... 5 poles

0.25 - 2.5 mm<sup>2</sup>

5.0 - 13.5 mm

M20-M25

IP68



**TH385**

2 .... 3 poles

0.5 - 4.0 mm<sup>2</sup>

5.0 - 12.0 mm

M20-M25

IP66/IP68



**TH406**

2 .... 6 poles

0.5 - 4.0 mm<sup>2</sup>

6.0 - 14.0 mm

M28

IP68

## Circular and Linear connectors

Number poles<sup>(1)</sup>

Wire cross-section

IP protection degree



**TH029**

2 .... 3 poles

0.5 - 4.0 mm<sup>2</sup>

IP00



**TH032**

2 .... 4 poles

0.5 - 4.0 mm<sup>2</sup>

IP00



**TH112**

2 .... 3 poles

0.5 - 1.5 mm<sup>2</sup>

IP54



**TH021**

2 .... 5 poles

0.5 - 4.0 mm<sup>2</sup>

IP20



**TH033**

2 .... 4 poles

0.5 - 4.0 mm<sup>2</sup>

IP00

## Innovative cable glands in co-molding

Outer cable diameter<sup>(2)</sup>

IP protection degree



**TH450-451-452**

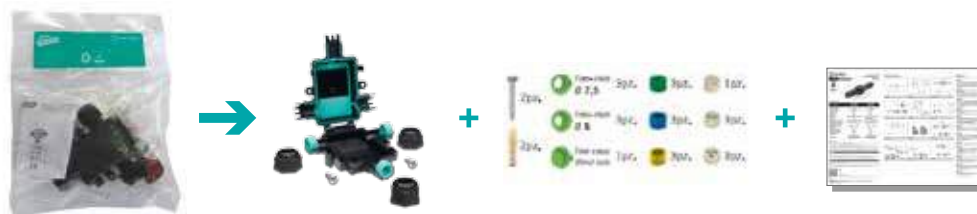
4.0 - 17.0 mm

M16 - M20 - M25

PG9 - PG13.5 - PG16

IP68

The codes in this document correspond to the individually packaged products. The main wiring accessories, fixing accessories and an instruction sheet are included in the packaging unit (hereinafter an example).



## mini-TEETUBE®: mini in-line circular joint connectors (IP68)



**TH391**



**TH391  
xDRY®**



**TH390**

External dimensions (mm)	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Outer cable diameter min - max (mm)	Code	Cable Type (not exhaustive)	Technical data	IP Grade	Series	Pieces/pack	Packs/box
ø23 x 68	2 - 3 - 4	0.5 - 4.0	5.0 - 12.0	SHORT VERSION <b>THB.391.A4A.R</b>	max. 4G1.5 FG70R 4G1.5 - 3G2.5 - 2G4 H07RN-F	32A - 450V	IP68 (30m/2h)	TH391	1	50
ø23 x 95	2 - 3 - 4	0.5 - 4.0	6.0 - 13.5	LONG VERSION <b>THB.391.A4A.L.R</b>	max. 4G2.5 FG70R max. 4G4 H07RN-F	32A - 450V	IP68 (30m/2h)	TH391	1	50
ø23 x 85	2 - 3 - 4	0.5 - 4.0	5.0 - 12.0	SHORT VERSION <b>THB.391.R4A.R<sup>(1)</sup></b>	max. 4G1.5 FG70R 4G1.5 - 3G2.5 - 2G4 H07RN-F	17.5A - 450V	IP68 (30m/2h)	TH391	1	50
ø23 x 113	2 - 3 - 4	0.5 - 4.0	6.0 - 13.5	LONG VERSION <b>THB.391.R4A.L.R<sup>(1)</sup></b>	max. 4G2.5 FG70R max. 4G4 H07RN-F	17.5A - 450V	IP68 (30m/2h)	TH391	1	50
ø32 x 82	2 - 3	0.5 - 4.0	6.0 - 13.5	<b>THR.390.S3D</b>	max. 3G4 FG70R max. 3G4 H07RN-F	32A - 450V	IP68 (50m/1h)	TH390	1	50

(1) xDRY product with the anti-condensation barrier (see page 4)

## TEETUBE®: in-line circular joint connectors (IP68)



**TH400**

External dimensions (mm)	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Outer cable diameter min - max (mm)	Code	Cable Type (not exhaustive)	Technical data	IP Grade	Series	Pieces/pack	Packs/box
ø26.5 x 115	2 - 3	0.5 - 4.0	6.0 - 13.5	<b>THR.400.S3D</b>	max. 3G4 FG70R max. 3G4 H07RN-F	32A - 450V	IP68 (50m/1h)	TH400	1	50
ø32 x 130	2 - 3	0.5 - 4.0	8.0 - 17.0	<b>THB.400.D1N.R</b>	max. 3G4 FG70R max. 3G4 H07RN-F	32A - 450V	IP68 (50m/1h)	TH400	1	50
ø32 x 130	2 - 3 - 4	0.5 - 4.0	6.0 - 17.0	<b>THR.400.A4D</b>	max. 4G4 FG70R max. 4G4 H07RN-F	32A - 450V	IP68 (50m/1h)	TH400	1	50
ø32 x 130	2 - 3 - 4	2.5 - 6.0	11.0 - 20.0	<b>THR.400.S4E</b>	max. 4G6 FG70R max. 4G6 H07RN-F	41A - 750V	IP68 (50m/1h)	TH400	1	50
ø32 x 130	2 - 3 - 4 - 5	0.5 - 4.0	6.0 - 17.0	<b>THR.400.S5D</b>	max. 5G4 FG70R max. 5G4 H07RN-F	32A - 450V	IP68 (50m/1h)	TH400	1	50

## mini-TEETUBE®: mini circular junction connectors - 3/4 ways "H" (IP68)



**TH392**



**TH392  
xDRY®**

External dimensions (mm)	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Outer cable diameter min - max (mm)	Code	Cable Type (not exhaustive)	Technical data	IP Grade	Series	Pieces/pack	Packs/box
28 x 54 x 80	2 - 3 - 4	0.5 - 1.5	main 5.0 - 12.0 branch 5.0 - 12.0	SHORT VERSION <b>THB.392.A4A.R<sup>(2)</sup></b>	max. 4G1.5 FG70R max. 4G1.5 H07RN-F	17.5A - 450V	IP68 (30m/2h)	TH392	1	30
28 x 54 x 109	2 - 3 - 4	0.5 - 2.5	main 6.0 - 13.5 branch 6.0 - 13.5	LONG VERSION <b>THB.392.A4A.L.R<sup>(2)</sup></b>	max. 4G2.5 FG70R max. 4G2.5 H07RN-F	17.5A - 450V	IP68 (30m/2h)	TH392	1	30
28 x 54 x 80	2 - 3 - 4	0.5 - 1.5	main 5.0 - 12.0 branch 5.0 - 12.0	SHORT VERSION <b>THB.392.R4A.R<sup>(1)(2)</sup></b>	max. 4G1.5 FG70R max. 4G1.5 H07RN-F	17.5A - 450V	IP68 (30m/2h)	TH392	1	30
28 x 54 x 109	2 - 3 - 4	0.5 - 2.5	main 6.0 - 13.5 branch 6.0 - 13.5	LONG VERSION <b>THB.392.R4A.L.R<sup>(1)(2)</sup></b>	max. 4G2.5 FG70R max. 4G2.5 H07RN-F	17.5A - 450V	IP68 (30m/2h)	TH392	1	30

(1) xDRY product with the anti-condensation barrier (see page 4)

(2) Closure cap included for 3 ways applications



## TEETUBE®: circular junction connectors - 3 ways “T” (IP68)



**TH390 “T”**

External dimensions(mm)	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Outer cable diameter min - max (mm)	Code	Cable Type (not exhaustive)	Technical data	IP Grade	Series	Pieces/pack	Packs/box
ø32 x 92 x 73	2 - 3	0.5 - 1.5	main 6.0 - 13.5 branch 6.0 - 13.5	<b>THR.390.S3T</b>	max. 3G1.5 FG70R max. 3G1.5 H07RN-F	32A - 450V	IP68 (20m/1h)	TH390	1	50
ø32 x 92 x 121	2 - 3	0.5 - 4.0	main 6.0 - 13.5 branch 6.0 - 13.5	<b>THB.402.C2E.R</b>	max. 3G4 FG70R max. 3G4 H07RN-F	32A - 450V	IP68 (20m/1h)	TH402	1	30
ø32 x 92 x 121	2 - 3 - 4	0.5 - 1.5	main 6.0 - 13.5 branch 6.0 - 13.5	<b>THB.402.C1D.R</b>	max. 4G1.5 FG70R max. 4G1.5 H07RN-F	32A - 450V	IP68 (20m/1h)	TH402	1	30
ø32 x 92 x 121	2 - 3 - 4	1.5 - 4.0	main 6.0 - 13.5 branch 6.0 - 13.5	<b>THB.402.D4A.R</b>	max. 4G2.5 FG70R max. 4G2.5 H07RN-F	32A - 450V	IP68 (20m/1h)	TH402	1	30
ø32 x 92 x 121	2 - 3 - 4 - 5	0.5 - 1.5	main 6.0 - 13.5 branch 6.0 - 13.5	<b>THB.402.C1F.R</b>	max. 5G1.5 FG70R max. 5G1.5 H07RN-F	32A - 450V	IP68 (20m/1h)	TH402	1	30



**TH402**

## TEETUBE®: circular junction connectors - 3 ways “Y” (IP68)



**TH399 (mini)**

External dimensions(mm)	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Outer cable diameter min - max (mm)	Code	Cable Type (not exhaustive)	Technical data	IP Grade	Series	Pieces/pack	Packs/box
ø32 x 63 x 125	2 - 3	0.5 - 1.5	main 6.0 - 13.5 branch 6.0 - 13.5	<b>THR.399.S3C</b>	max. 3G1.5 FG70R max. 3G1.5 H07RN-F	32A - 450V	IP68 (20m/1h)	TH399	1	50
ø32 x 63 x 180	2 - 3	0.5 - 4.0	main 6.0 - 17.0 branch 6.0 - 17.0	<b>THR.399.S9L</b>	max. 3G4 FG70R max. 3G4 H07RN-F	32A - 450V	IP68 (20m/1h)	TH399	1	30
ø32 x 63 x 180	2 - 3 - 4	0.5 - 1.5	main 6.0 - 17.0 branch 6.0 - 17.0	<b>THB.399.D4A.R</b>	max. 4G1.5 FG70R max. 4G1.5 H07RN-F	32A - 450V	IP68 (20m/1h)	TH399	1	30
ø32 x 63 x 180	2 - 3 - 4	1.5 - 4.0	main 6.0 - 16.0 branch 6.0 - 16.0	<b>THB.399.A4F.R</b>	max. 4G4 FG70R max. 4G4 H07RN-F	32A - 450V	IP68 (20m/1h)	TH399	1	30
ø32 x 63 x 180	2 - 3 - 4 - 5	0.5 - 1.5	main 6.0 - 17.0 branch 6.0 - 17.0	<b>THR.399.S5L</b>	max. 5G1.5 FG70R max. 5G1.5 H07RN-F	32A - 450V	IP68 (20m/1h)	TH399	1	30



**TH399**

(1) Closure cap to close a cable outlet included

# mini-TEETUBE®: mini wall mount circular joint connectors (IP68)



**TH391 (M20 nut)**



**TH391 (M25 nut)**



**Example**

External dimensions (mm)	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Outer cable diameter min - max (mm)	Code <sup>(1)</sup>	Thread	Cable Type (not exhaustive)	Technical data	IP Grade	Series	Pieces/pack	Packs/box
ø23 x 35	2 - 3 - 4	0.5 - 4.0	5.0 - 12.0	SHORT VERSION <b>THB.391.B4A.R<sup>(2)</sup></b>	M20	max. 4G1.5 FG70R max 4G1.5 - 3G2.5 - 2G4 H07RN-F	32A - 450V	IP68 (30m/2h)	TH391	1	50
ø23 x 50	2 - 3 - 4	0.5 - 4.0	6.0 - 13.5	LONG VERSION <b>THB.391.B4A.L.R<sup>(2)</sup></b>	M20	max. 4G2.5 FG70R max 4G4 H07RN-F	32A - 450V	IP68 (30m/2h)	TH391	1	50
ø23 x 48	2 - 3 - 4	0.5 - 4.0	5.0 - 12.0	SHORT VERSION <b>THB.391.H4A.R</b>	M20	max. 4G1.5 FG70R max 4G1.5 - 3G2.5 - 2G4 H07RN-F	32A - 450V	IP68 (30m/2h)	TH391	1	50
ø23 x 63	2 - 3 - 4	0.5 - 4.0	6.0 - 13.5	LONG VERSION <b>THB.391.H4A.L.R</b>	M20	max. 4G2.5 FG70R max 4G4 H07RN-F	32A - 450V	IP68 (30m/2h)	TH391	1	50
ø23 x 38	2 - 3 - 4	0.5 - 4.0	5.0 - 12.0	SHORT VERSION <b>THB.391.L4A.R</b>	M25	max. 4G1.5 FG70R max 4G1.5 - 3G2.5 - 2G4 H07RN-F	32A - 450V	IP68 (30m/2h)	TH391	1	50
ø23 x 53	2 - 3 - 4	0.5 - 4.0	6.0 - 13.5	LONG VERSION <b>THB.391.L4A.L.R</b>	M25	max. 4G2.5 FG70R max 4G4 H07RN-F	32A - 450V	IP68 (30m/2h)	TH391	1	50
ø23 x 53	2 - 3 - 4	0.5 - 4.0	5.0 - 12.0	SHORT VERSION <b>THB.391.D4A.R<sup>(2)(3)</sup></b>	M20	max. 4G1.5 FG70R max 4G1.5 - 3G2.5 - 2G4 H07RN-F	17.5A - 450V	IP68 (30m/2h)	TH391	1	50
ø23 x 68	2 - 3 - 4	0.5 - 4.0	6.0 - 13.5	LONG VERSION <b>THB.391.D4A.L.R<sup>(2)(3)</sup></b>	M20	max. 4G2.5 FG70R max 4G4 H07RN-F	17.5A - 450V	IP68 (30m/2h)	TH391	1	50
ø23 x 66	2 - 3 - 4	0.5 - 4.0	5.0 - 12.0	SHORT VERSION <b>THB.391.N4A.R<sup>(3)</sup></b>	M20	max. 4G1.5 FG70R 4G1.5 - 3G2.5 - 2G4 H07RN-F	17.5A - 450V	IP68 (30m/2h)	TH391	1	50
ø23 x 81	2 - 3 - 4	0.5 - 4.0	6.0 - 13.5	LONG VERSION <b>THB.391.N4A.L.R<sup>(3)</sup></b>	M20	max. 4G2.5 FG70R max 4G4 H07RN-F	17.5A - 450V	IP68 (30m/2h)	TH391	1	50
ø23 x 56	2 - 3 - 4	0.5 - 4.0	5.0 - 12.0	SHORT VERSION <b>THB.391.T4A.R<sup>(3)</sup></b>	M25	max. 4G1.5 FG70R 4G1.5 - 3G2.5 - 2G4 H07RN-F	17.5A - 450V	IP68 (30m/2h)	TH391	1	50
ø23 x 71	2 - 3 - 4	0.5 - 4.0	6.0 - 13.5	LONG VERSION <b>THB.391.T4A.L.R<sup>(3)</sup></b>	M25	max. 4G2.5 FG70R max 4G4 H07RN-F	17.5A - 450V	IP68 (30m/2h)	TH391	1	50

(1) Supplied with the fixing nut (2) Only for plastic panels or Class III (SELV) devices (3) xDRY product with the anti-condensation barrier (see page 4)



### Products with piercing screw terminal blocks (see page 8)

In addition to products with screw terminal blocks, piercing screw connectors are available for cable section from 0.5 mm<sup>2</sup> to 1.5mm<sup>2</sup> (max. 17.5A). Approved with PVC, Neoprene and FEP cables.

How to order CODE THP:xxx.xxx  
example

THP.391.A4A.R  
products with piercing screws

THB.391.A4A.R  
products with standard screws



Transparent and colour versions upon customer request.



Compatible with cable protection systems and spiral tops.



Versions with over-molded cable upon customer request.



Special versions. Learn more on [www.techno.it](http://www.techno.it)



Wide range of accessories for cables of various kind.



## TEEBOX®: In-out junction box with terminal block (IP44)



**TH110  
(2poles)**

External dimensions (mm)	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Outer cable diameter min - max (mm)	Code	Cable Type (not exhaustive)	Technical data	IP Grade	Series	Pieces/ pack	Packs/box
75 x 39 x 13.5	2	0.5 - 2.5	5.0 - 9.0	<b>THR.110.S2A</b> <sup>(1)</sup>	max. 2G2.5 - 3G2.5 H05SS-F, H05VV-F, H05RRR-F	24A - 450V	IP44	TH110	1	50
75 x 39 x 13.5	3	0.5 - 2.5	5.0 - 9.0	<b>THR.110.S3A</b>		24A - 450V	IP44	TH110	1	50



**TH110  
(3poles)**

(1) Approved for use with class 2 devices

## TEEBOX®: Junction boxes with terminal block - 3 ways "T" (IP65/IP67)



**TH200**

External dimensions (mm)	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Outer cable diameter min - max (mm)	Code	Cable Type (not exhaustive)	Technical data	IP Grade	Series	Pieces/ pack	Packs/box
70 x 82 x 20	2 - 3	0.5 - 1.5	main 2.5 - 9.5 branch 2.5 - 9.5	<b>THR.200.S3M</b> <sup>(2)</sup>	max. 3G1.5 H07RN-F	16A - 250V	IP67	TH200	1	50
137 x 118 x 36	2 - 3	0.5 - 4.0	main 6.0 - 13.5 branch 6.0 - 13.5	<b>THR.211.S3A</b> <sup>(2)</sup>	max. 3G4 FG70R max. 3G4 H07RN-F	24A - 450V	IP65	TH211	1	50
137 x 118 x 36	2 - 3	0.5 - 4.0	main 8.0 - 17.0 branch 8.0 - 17.0	<b>THR.211.S3D</b>	max. 3G4 FG70R max. 3G4 H07RN-F	24A - 450V	IP65	TH211	1	50
137 x 118 x 36	2 - 3 - 4	0.5 - 4.0	main 8.0 - 17.0 branch 8.0 - 17.0	<b>THR.211.S4D</b>	max. 4G4 FG70R max. 4G4 H07RN-F	16A - 450V	IP65	TH211	1	50



**TH211**

(1) Supplied with the terminal block (2) Closure cap to close a cable outlet included Note: versions with more poles available upon request. Learn more on [www.techno.it](http://www.techno.it)

## TEEBOX®: Junction boxes with terminal block - 3/4 ways "H" (IP68)



**TH209**

External dimensions (mm)	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Outer cable diameter min - max (mm)	Code	Cable Type (not exhaustive)	Technical data	IP Grade	Series	Pieces/ pack	Packs/box
108 x 65 x 28	2 - 3	0.5 - 4.0	main 6.0 - 14.0 branch 6.0 - 14.0	<b>THB.209.A3A.R</b>	max. 3G4 FG70R max. 3G4 H07RN-F	24A - 450V	IP68 (5m/3h)	TH209	1	50
108 x 65 x 28	2 - 3 - 4	0.5 - 2.5	main 6.0 - 14.0 branch 6.0 - 14.0	<b>THR.209.A4A</b>	max. 4G2.5 FG70R max. 4G2.5 H07RN-F	24A - 450V	IP68 (5m/3h)	TH209	1	50
108 x 65 x 28	5	0.5 - 1.5	main 6.0 - 14.0 branch 6.0 - 14.0	<b>THR.209.S5L</b>	max. 5G1.5 FG70R max. 5G1.5 H07RN-F	16A - 450V	IP68 (5m/3h)	TH209	1	50
108 x 65 x 28	8	0.5 - 1.5	main 6.0 - 14.0 branch 6.0 - 14.0	<b>THR.209.S8L</b>	max. 8G1 H07RN-F	16A - 450V	IP68 (5m/3h)	TH209	1	50
108 x 65 x 28	-	-	main 6.0 - 14.0 branch 6.0 - 14.0	<b>THR.219.A0A</b> <sup>(3)</sup>	-	16A - 450V	IP68 (5m/3h)	TH209	1	50



**TH219**

(1) Supplied with the terminal block (2) Closure cap to close a cable outlet included (3) Empty box to be filled with the resin (resin not included)

## TEEBOX®: Pre-wired junction boxes with plug&socket connectors 3 ways "T" (IP65)



External dimensions (mm) <sup>(2)</sup>	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Outer cable diameter min - max (mm)	Code <sup>(1)(3)</sup>	Cable Type (not exhaustive)	Technical data	IP Grade	Series	Pieces/pack	Packs/box
235 x 159 x 43	2 - 3	0.5 - 2.5	main 6.0 - 14.0 branch 6.0 - 14.0	<b>THR.631.S3A</b>	max. 3G2.5 FG70R max. 3G2.5 H07RN-F	25A - 400V	IP65	TH631	1	10
235 x 159 x 43	2 - 3 - 4 - 5	0.5 - 1.5	main 6.0 - 14.0 branch 6.0 - 14.0	<b>THR.631.S5A</b>	max. 5G1.5 FG70R max. 5G1.5 H07RN-F	17.5A - 400V	IP65	TH631	1	10

(1) Supplied with plug&socket connectors (2) Dimensions are intended when the connectors are inserted (3) Closure cap to close a cable outlet included

## TEEBOX®: Pre-wired junction boxes with plug&socket connectors 4 ways "H" (IP68)



External dimensions (mm) <sup>(2)</sup>	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Outer cable diameter min - max (mm)	Code <sup>(1)(3)</sup>	Cable Type (not exhaustive)	Technical data	IP Grade	Series	Pieces/pack	Packs/box
200 x 65 x 28	2 - 3	0.5 - 1.5	main 5.0 - 12.0 branch 5.0 - 12.0	<b>THR.623.B3A</b>	max. 3G1.5 FG70R max. 3G1.5 H07RN-F	17.5A - 400V	IP40	TH623	1	10
200 x 65 x 28	2 - 3	0.5 - 2.5	main 5.0 - 12.0 branch 5.0 - 12.0	<b>THR.623.S3A</b>	max. 3G2.5 FG70R max. 3G2.5 H07RN-F	17.5A - 400V	IP68 (5m/3h)	TH623	1	10
135 x 60 x 23	2 - 3 - 4	0.5 - 1.5	main 6.0 - 13.5 branch 6.0 - 13.5	<b>THH.624.A3A.L.R</b>	max. 4G2.5 FG70R max. 4G2.5 H07RN-F	17.5A - 400V	IP68	TH624	1	10
135 x 60 x 23	2 - 3 - 4 - 5	0.25 - 2.5	main 6.0 - 13.5 branch 6.0 - 13.5	<b>THH.624.A5A.L.R</b>	max. 4G2.5 FG70R max. 4G2.5 H07RN-F	17.5A - 400V	IP68	TH624	1	10

(1) Supplied with plug&socket connectors (2) Dimensions are intended when the connectors are inserted (3) Closure cap to close a cable outlet included



### Products with piercing screw terminal blocks (see page 8)

In addition to products with screw terminal blocks, piercing screw connectors are available for cable section from 0.5 mm<sup>2</sup> to 1.5mm<sup>2</sup> (max. 17.5A). Approved with PVC, Neoprene and FEP cables.

How to order CODE THP.xxx.xxx  
example

**THP.391.A4A.R**  
products with piercing screws

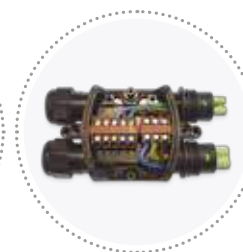
**THB.391.A4A.R**  
products with standard screws



Colour and personalized versions upon customer request.



Transparent versions for easy check of the connection.



Hybrid and pre-wired solutions upon customer request.



Learn more about the TEEBOX® range on [www.techno.it](http://www.techno.it)



## mini-TEEPLUG®: mini plug&socket connectors (IP66/IP68)



**TH381**



**TH384**



**TH387**



**TH387**

	External dimensions (mm) <sup>(1)</sup>	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Outer cable diameter min - max (mm)	Code <sup>(1)</sup>	Cable Type (not exhaustive)	Technical data	IP Grade	Series	Pieces/pack	Packs/box
	ø14 x 95	2	0.25 - 1.0	5.0 - 8.0	<b>THB.381.A2A.R</b> <sup>(3)</sup>	max. 2G1 H07RN-F	10A - 400V	IP68 (30m/1h)	TH381	1	50
	ø27 x 95	2 - 3	0.5 - 2.5	5.0 - 12.0	<b>THR.384.S3A</b> <sup>(3)</sup>	max. 3G2.5 FG70R max. 3G2.5 H07RN-F	17.5A - 400V	IP66/IP68 (50m/24h)	TH384	1	50
	ø23 x 85	2 - 3 - 4	0.5 - 2.5	5.0 - 12.0	<b>THB.387.A4A.R</b> <sup>(3)</sup>	max. 3G2.5/4G1.5 FG70R max. 3G2.5/4G1.5 H07RN-F	17.5A - 450V	IP68 (30m/3h)	TH387	1	50
	ø23 x 113	2 - 3 - 4	0.5 - 2.5	6.0 - 13.5	<b>THB.387.A4A.L.R</b> <sup>(3)</sup>	max. 4G2.5 FG70R max. 4G2.5 H07RN-F	17.5A - 450V	IP68 (30m/3h)	TH387	1	50
	ø23 x 85	2 - 3 - 4 - 5	0.25 - 1.5	5.0 - 12.0	<b>THB.387.A5A.R</b>	max. 5G1.5 FG70R max. 5G1.5 H07RN-F	17.5A - 450V	IP68 (30m/3h)	TH387	1	50
	ø23 x 113	2 - 3 - 4 - 5	0.25 - 2.5	6.0 - 13.5	<b>THB.387.A5A.L.R</b>	max. 5G2.5 FG70R max. 5G2.5 H07RN-F	17.5A - 450V	IP68 (30m/3h)	TH387	1	50

(1) Dimensions are intended when the connectors are inserted (2) UL approvals only for the TH384 series – 3 poles (learn more on [www.techno.it](http://www.techno.it))

(3) Approved for use with class 2 devices (only for 2 poles versions)

## TEEPLUG®: plug&socket connectors with safety lock-unlock system (IP68)



**TH405**

	External dimensions (mm) <sup>(1)</sup>	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Outer cable diameter min - max (mm)	Code <sup>(1)(3)</sup>	Cable Type (not exhaustive)	Technical data	IP Grade	Series	Pieces/pack	Packs/box
	ø36.5 x 130	2 - 3	0.5 - 2.5	6.0 - 14.0	<b>THR.405.S3B</b> <sup>(3)(4)</sup>	max. 3G2.5 FG70R max. 3G2.5 H07RN-F	25A - 400V	IP68 (10m/1h)	TH405	1	50
	ø36.5 x 130	2 - 3 - 4 - 5	0.5 - 1.5	6.0 - 14.0	<b>THR.405.S5A</b>	max. 5G1.5 FG70R max. 5G1.5 H07RN-F	17.5A - 400V	IP68 (10m/1h)	TH405	1	50
	ø36.5 x 130	2 - 3 - 4 - 5 - 6	0.5 - 1.5	6.0 - 14.0	<b>THR.405.S6C</b>	max. 6G1.5 FG70R max. 6G1.5 H07RN-F	17.5A - 400V	IP68 (10m/1h)	TH405	1	50

(1) Dimensions are intended when the connectors are inserted (2) UL approvals only for 3 and 5 poles (learn more on [www.techno.it](http://www.techno.it))

(3) Approved for use with class 2 devices (only for 2 poles versions) (4) Tested up to 32 Amp with 3G4 cable

# TEEPLUG®: plug&socket connectors (IP65)



**TH404**

External dimensions (mm) <sup>(1)</sup>	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Outer cable diameter min - max (mm)	Code <sup>(3)</sup>	Cable Type (not exhaustive)	Technical data	IP Grade	Series	Pieces/pack	Packs/box
ø42 x 130	2 - 3	0.5 - 2.5	6.0 - 14.0	<b>THR.404.S3B</b>	max. 3G2.5 FG70R max. 3G2.5 H07RN-F	25A - 400V	IP65	TH404	1	50
ø42 x 130	2 - 3 - 4 - 5	0.5 - 1.5	6.0 - 14.0	<b>THR.404.S5A</b>	max. 5G1.5 FG70R max. 5G1.5 H07RN-F	17.5A - 400V	IP65	TH404	1	50
ø42 x 130	2 - 3 - 4 - 5 - 6	0.5 - 1.5	6.0 - 14.0	<b>THR.404.S6C</b>	max. 6G1.5 FG70R max. 6G1.5 H07RN-F	17.5A - 400V	IP65	TH404	1	50

(1) Le dimensioni sono riferite al connettore completo presa-spina (2) Utilizzabili con apparecchi in Classe 2 (solo per serie TH404 - 2 poli) (3) Connettori presa e spina inclusi nella confezione

# mini-TEEPLUG®: mini wall mount plug&socket connectors (IP66/IP68)



**TH381**



**TH385**

With fixing nut



**TH387**

External dimensions (mm) <sup>(1)</sup>	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Outer cable diameter min - max (mm)	Code <sup>(2)(3)</sup>	Cable Type (not exhaustive)	Technical data	IP Grade	Series	Pieces/pack	Packs/box
ø14 x 95	2	0.25 - 1.0	4.0 - 8.0	<b>THB.381.N2A.R</b>	M16	10A - 400V	IP68 (30m/1h)	TH381	1	50
ø27 x 72	2 - 3	0.5 - 4.0	5.0 - 12.0	<b>THB.385.A3D.R</b>	M20	17.5A - 450V	IP66/IP68 (50m/24h)	TH385	1	50
ø27 x 72	2 - 3	0.5 - 4.0	5.0 - 12.0	<b>THB.385.S3A</b>	M25	17.5A - 450V	IP66/IP68 (50m/24h)	TH385	1	50
ø23 x 63	2 - 3 - 4	0.5 - 2.5	6.0 - 13.5	<b>THB.387.L4A.L.R</b>	M20 <sup>(5)</sup>	17.5A - 450V	IP68 (30m/3h)	TH387	1	50
ø23 x 76	2 - 3 - 4	0.5 - 2.5	6.0 - 13.5	<b>THB.387.N4A.L.R</b>	M20	17.5A - 450V	IP68 (30m/3h)	TH387	1	50
ø23 x 66	2 - 3 - 4	0.5 - 2.5	6.0 - 13.5	<b>THB.387.E4A.L.R</b>	M25	17.5A - 450V	IP68 (30m/3h)	TH387	1	50
ø23 x 63	2 - 3 - 4 - 5	0.25 - 2.5	6.0 - 13.5	<b>THB.387.L5A.L.R</b>	M20 <sup>(5)</sup>	17.5A - 450V	IP68 (30m/3h)	TH387	1	50
ø23 x 76	2 - 3 - 4 - 5	0.25 - 2.5	6.0 - 13.5	<b>THB.387.N5A.L.R</b>	M20	17.5A - 450V	IP68 (30m/3h)	TH387	1	50
ø23 x 66	2 - 3 - 4 - 5	0.25 - 2.5	6.0 - 13.5	<b>THB.387.E5A.L.R</b>	M25	17.5A - 450V	IP68 (30m/3h)	TH387	1	50

(1) Dimensions are intended when the connectors are inserted  
 (3) Supplied with the fixing nut  
 (5) Only for plastic panels or Class III (SELV) devices.

(2) Plug and socket supplied together  
 (4) UL approvals only for TH385 M25 3 poles (learn more on [www.techno.it](http://www.techno.it))  
 (6) Approved for use with class 2 devices: only for TH385 2 poles, TH387 2 poles and TH381

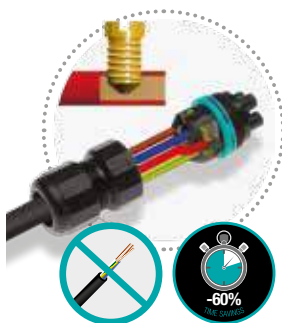
## Products with piercing screw terminal blocks (see page 8)

In addition to products with screw terminal blocks, piercing screw connectors are available for cable section from 0.5 mm<sup>2</sup> to 1.5mm<sup>2</sup> (max. 17.5A). Approved with PVC, Neoprene and FEP cables.

How to order CODE THP.xxx.xxx  
 example

THP.391.A4A.R  
 products with piercing screws

THB.391.A4A.R  
 products with standard screws



Colour and personalized versions upon request.



Transparent versions for easy check of the connection.



Versions with over-molded cable upon customer request.



Wide range of accessories for cables of various kind.



## mini-TEEPLUG®: mini wall mount quick-fix plug&socket connectors (IP67)



**TH386**

External dimensions (mm) <sup>(1)</sup>	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Outer cable diameter min - max (mm)	Code <sup>(2)</sup>	Panel Hole (mm)	Technical data	IP Grade	Series	Pieces/pack	Packs/box
ø27 x 72	2 - 3	0.5 - 2.5	5.0 - 12.0	<b>THR.386.S3A</b>	ø25	17.5A - 400V	IP67	TH386	1	50

Quick-fix system

(1) Dimensions are intended when the connectors are inserted (2) Plug and socket supplied together

## mini-TEEPLUG®: mini wall mount plug&socket connectors 90° angled (IP66/IP68)



**TH385**

External dimensions (mm) <sup>(1)</sup>	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Outer cable diameter min - max (mm)	Code <sup>(2)</sup>	Panel Hole (mm)	Technical data	IP Grade	Series	Pieces/pack	Packs/box
ø27 x 35 x 100	2 - 3	0.5 - 2.5	5.0 - 12.0	<b>THB.385.A3F.R</b>	M20	17.5A - 400V	IP66/IP68 (50m/24h)	TH385	1	50

With fixing nut

(1) Dimensions are intended when the connectors are inserted  
(3) Supplied with the fixing nut

(2) Plug and socket supplied together  
(4) Approved for use with class 2 devices (only for 2 poles versions)

## TEEPLUG®: mount plug&socket connectors (IP68)



**TH406**

External dimensions (mm) <sup>(1)</sup>	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Outer cable diameter min - max (mm)	Code <sup>(2)</sup>	Panel Hole (mm)	Technical data	IP Grade	Series	Pieces/pack	Packs/box
ø36.5 x 70	2 - 3	0.5 - 2.5	6.0 - 14.0	<b>THR.406.S3B</b>	M28	25A - 400V	IP68 (10m/1h)	TH406	1	50
ø36.5 x 70	2 - 3 - 4 - 5	0.5 - 1.5	6.0 - 14.0	<b>THR.406.S5A</b>	M28	17.5A - 400V	IP68 (10m/1h)	TH406	1	50
ø36.5 x 70	2 - 3 - 4 - 5 - 6	0.5 - 1.5	6.0 - 14.0	<b>THR.406.S6C</b>	M28	17.5A - 400V	IP68 (10m/1h)	TH406	1	50

With fixing nut

(1) Dimensions are intended when the connectors are inserted  
(3) Supplied with the fixing nut  
(5) Approved for use with class 2 devices (only for 2 poles versions)

(2) Plug and socket supplied together  
(4) UL approvals only for 3 and 5 poles (learn more on [www.techno.it](http://www.techno.it))

# mini-TEEPLUG®: mini plug&socket connectors with insulation piercing system (IP68)

For single-pole main cables



External dimensions (mm) <sup>(1)</sup>	N. Poles min - max	Main cable cross section min - max (mm <sup>2</sup> )	Main cable diameter min - max (mm)	Outer cable diameter min - max (mm)	Code <sup>(2)</sup>	Technical data	IP Grade	Series	Pieces/pack	Packs/box
32 x 44 x 130	2	2.5 - 4.0	6.0 - 7.0	5.0 - 12.0	<b>THR.370.A2A</b>	17.5A - 400V	IP68	TH370	1	50
32 x 44 x 130	2	4.0 - 6.0	7.0 - 8.0	5.0 - 12.0	<b>THR.370.B2A</b>	17.5A - 400V	IP68	TH370	1	50

(1) Dimensions are intended when the connectors are inserted (2) Plug and socket supplied together

# mini-TEEPLUG®: mini plug&socket ultra flat connector (IP67)



TH420

External dimensions (mm) <sup>(1)</sup>	N. Poles min - max	Main cable cross section min - max (mm <sup>2</sup> )	Code <sup>(2)</sup>	Technical data	IP Grade	Series	Pieces/pack	Packs/box
22 x 84 x 4	2	0.75	<b>THR.420.S2A</b>	6A - 230V	IP67	TH420	1	50

(1) Dimensions are intended when the connectors are inserted (2) Plug and socket are supplied together

Note: plug and socket connectors are supplied with over-molded cable (H03V2V2-F, 2x0.75mm<sup>2</sup>). Cable length is 450 mm for both sides.



### Products with piercing screw terminal blocks (see page 8)

In addition to products with screw terminal blocks, piercing screw connectors are available for cable section from 0.5 mm<sup>2</sup> to 1.5mm<sup>2</sup> (max. 17.5A). Approved with PVC, Neoprene and FEP cables.

How to order CODE THP:xxx.xxx example

THP.391.A4A.R products with piercing screws

THB.391.A4A.R products with standard screws



TH386. Quick fixing on circular or flat panel without the use of the fixing nut.



TH386. Pluggable installation when used in combination with TH384 connectors.



TH370. Quick installations of the main cable with the insulation piercing clip connector.



TH370. Pluggable installation of the branch cable when used in combination with TH384 connectors.



## TEEDRUM®: mini compact circular connectors (IP20)



**TH021**

External dimensions (mm)	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Code	Technical data	IP Grade	Series	Pieces/pack	Packs/box
∅22 x 26	2 - 3	0.5 - 4.0	<b>THR.021.S3A</b>	32A - 450V	IP20	TH021	5	30



**TH033**

23 x 22 x 24	2 - 3 - 4	0.5 - 4.0	<b>THB.033.A4A.R</b>	32A - 450V	IP00	TH033	5	30
∅26 x 26	2 - 3 - 4 - 5	0.5 - 4.0	<b>THR.021.S5A</b>	32A - 450V	IP20	TH021	5	30



## TEEBLOCK®: mini compact linear connectors (IP00)



**TH026**

External dimensions (mm)	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Code	Technical data	IP Grade	Series	Pieces/pack	Packs/box
21 x 20.6 x 16.4	2 - 3	0.5 - 4.0	<b>THR.026.A3A</b>	32A - 450V	IP00	TH026	5	30



**TH029**

30.6 x 20.6 x 15.8	2 - 3	0.5 - 4.0	<b>THR.029.S3A<sup>(1)</sup></b>	32A - 450V	IP00	TH029	5	30
29 x 44 x 16	2 - 3	1.5 - 6.0	<b>THR.027.A3A</b>	41A - 450V	IP00	TH027	1	50



**TH032**

50.7 x 20.8 x 21	2 - 3 - 4	0.5 - 4.0	<b>THB.032.A4B.R<sup>(1)</sup></b>	32A - 450V	IP00	TH032	1	50
32 x 21 x 16.4	2 - 3 - 4 - 5	0.5 - 4.0	<b>THR.026.A5A</b>	32A - 450V	IP00	TH026	5	30

(1) Current distributor with double connection (see page 17) *Note: TEEBLOCK® connectors are approved for use with stranded and solid cables*



**TH112**

External dimensions (mm)	N. Poles min - max	Wire cross section min - max (mm <sup>2</sup> )	Code	Technical data	IP Grade	Series	Pieces/pack	Packs/box
21 x 46.3 x 12.6	2 - 3	0.5 - 1.5	<b>THR.112.A3A</b>	17.5A - 450V	IP54	TH112	1	50

*Note: visit [www.techno.it](http://www.techno.it) to learn more on crimp contacts usable with this product. See page 17 for more information on TH112*

# TEEGLAND®: innovative cable glands in co-molding (IP68)



Thread	Colour	Outer cable diameter (mm)	Code <sup>(1)</sup>	IP Grade	Series	Pieces/pack	Packs/box
PG9	black	4.0 - 9.5	<b>THR.450.S1A</b>	IP68 (50m/1h)	TH450	5	50
PG13.5	black	7.0 - 10.5	<b>THR.451.S1A</b>	IP68 (50m/1h)	TH451	5	50
PG13.5	black	10.5 - 14.0	<b>THR.451.S3A</b>	IP68 (50m/1h)	TH451	5	50
PG16	black	7.0 - 10.5	<b>THR.451.S5A</b>	IP68 (50m/1h)	TH451	5	50
PG16	black	10.5 - 14.0	<b>THR.451.S7A</b>	IP68 (50m/1h)	TH451	5	50
M16	black	4.0 - 9.5	<b>THR.450.S0A</b>	IP68 (50m/1h)	TH450	5	50
M20	black	7.0 - 10.5	<b>THR.451.S2A</b>	IP68 (50m/1h)	TH451	5	50
M20	black	10.5 - 14.0	<b>THR.451.S0A</b>	IP68 (50m/1h)	TH451	5	50
M25	black	7.0 - 10.5	<b>THR.452.S2A</b>	IP68 (50m/1h)	TH452	5	50
M25	black	10.5 - 14.0	<b>THR.452.S0A</b>	IP68 (50m/1h)	TH452	5	50
M25	black	14.0 - 17.0	<b>THR.452.S4A</b>	IP68 (50m/1h)	TH452	5	50



Thread	Colour	Outer cable diameter (mm)	Code	IP Grade	Series	Pieces/pack	Packs/box
PG9	grey	4.0 - 9.5	<b>THR.450.S1E</b>	IP68 (50m/1h)	TH450	5	50
PG13.5	grey	7.0 - 10.5	<b>THR.451.S1E</b>	IP68 (50m/1h)	TH451	5	50
PG13.5	grey	10.5 - 14.0	<b>THR.451.S3E</b>	IP68 (50m/1h)	TH451	5	50
PG16	grey	7.0 - 10.5	<b>THR.451.S5E</b>	IP68 (50m/1h)	TH451	5	50
PG16	grey	10.5 - 14.0	<b>THR.451.S7E</b>	IP68 (50m/1h)	TH451	5	50
M16	grey	4.0 - 9.5	<b>THR.450.S0E</b>	IP68 (50m/1h)	TH450	5	50
M20	grey	7.0 - 10.5	<b>THR.451.S2E</b>	IP68 (50m/1h)	TH451	5	50
M20	grey	10.5 - 14.0	<b>THR.451.S0E</b>	IP68 (50m/1h)	TH451	5	50
M25	grey	7.0 - 10.5	<b>THR.452.S2E</b>	IP68 (50m/1h)	TH452	5	50
M25	grey	10.5 - 14.0	<b>THR.452.S0E</b>	IP68 (50m/1h)	TH452	5	50
M25	grey	14.0 - 17.0	<b>THR.452.S4E</b>	IP68 (50m/1h)	TH452	5	50

(1) Fixing nut included (black colour)



Colour versions available upon request.



# Project references:

electrical connections under the most extreme conditions



Connection of LED industrial lighting for automotive industry (Germany).  
**Series TH405/TH406 (silicon free).**



Connection of street lighting LED Luminaires (Rome, Italy).  
**Series TH405.**



Connection of luminaires for Supertree Grove, Garden by the Bay (Singapore).  
**Series TH400.**



Connection of facade lighting devices at Birmingham library (UK).  
**Series TH405/TH631.**



Connection of LED luminaires (Penang, Malaysia).  
**Series TH387.**



Connection of street lighting devices at F1 Grand Prix (Singapore).  
**Series TH405.**



Connection of submersible pumps (France).  
**Series TH400.**



Connection of lighting points on a sailing boat (New Zealand).  
**Series TH387.**



Connection of LED luminaires in cold rooms on a FPSO vessel (Singapore).  
**Series TH387.**



Connection of LED luminaires in a car washing plant (New Zealand).  
**Series TH387.**



Wall mount connection on a control panel of a bottled water plant (Australia).  
**Series TH387.**



Connection of liquid level sensors (Shanghai, China).  
**Series TH451.**



Connection of generators for a server room UPS (New Zealand).  
**Series TH405.**



Connection of motors (Germany).  
**Series TH450.**



Connection of heating cables (Italy).  
**Series TH211.**

## International client experience

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