

Plug&Socket connector with cable clamp IP68 (TH370)

Product presentation



High-reliability electrical connections www.techno.it





The right solution to capture energy quickly and safely

An innovative product that allows you to get electric power quickly and in complete safety.

Our TH370 plug&socket insulation piercing connector is the winning solution for the illuminating engineering industry in terms of quality and reliability. The installation time is considerably reduced and the safety of the system is guaranteed by the degree of protection IP68 (maximum protection from dust and water).

This connector is particularly suitable for decorative lighting and illuminations.



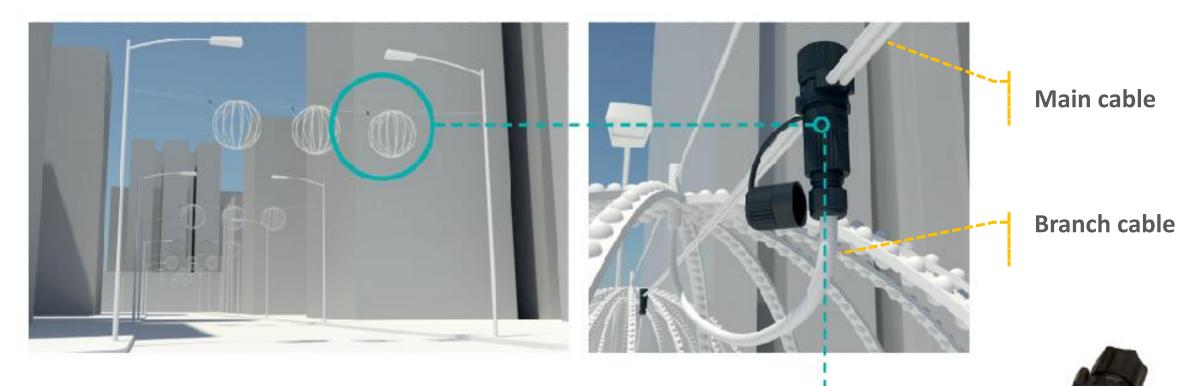
Scan the QR code to watch the video and find out all about TH370.

Agenda

- The reason why
- Features & Benefits
- Example of Applications
- Targets
- Code and Technical information
- Marketing tools



The right solution to capture energy quickly and safely

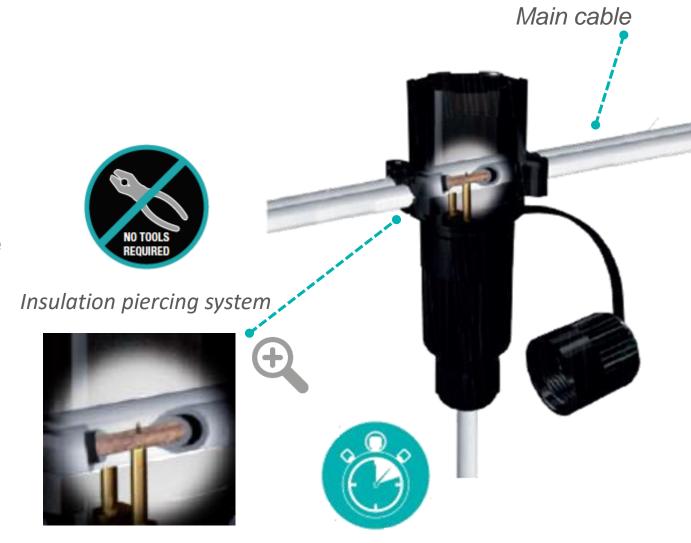


The TH370 connector gets electric power from the main cable throughout the system. It gives power to plug&socket connectors on branch cables quickly.



Insulation piercing system → Installation time reduced

- Quick: It gets electric power from the main cable with the piercing system
- The main cable does not need to be stripped
- Main cable should be like 2-single pole cables (see figure)
- Cannot be used for electrical installations with ground cable





Quick clamping system → Flexible

Intuitive: Only few steps are needed to pierce the cable

Versatile: installation at any point on the main cable (<u>also</u> <u>already installed</u>). It does not need access to the heads or cable ends

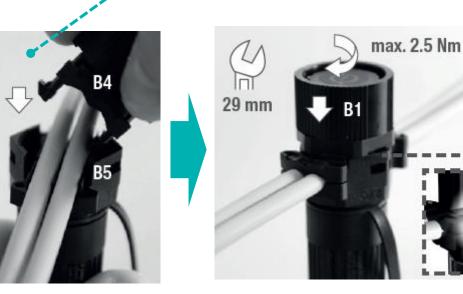
Cable size – 2-codes:

THx.370.A2A for cable 2.5 mm² ÷ 4.0 mm²
 (Outer diameter: 6.0 mm ÷ 7.0 mm)

○ THx.370.B2A for cable 4.0 mm² ÷ 6.0 mm²
 (outer diameter: 7.0 mm ÷ 8.0 mm)

- Ideal for flexible cables for outdoor use (Tested on PVC, Neoprene and FEP cables)
- Cannot be used with solid/rigid main cable

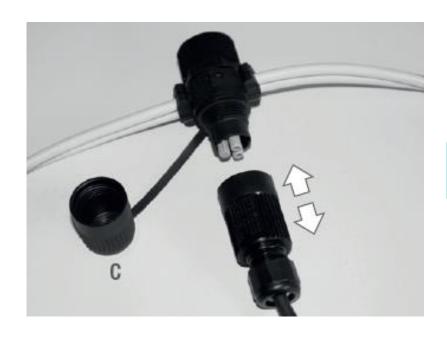
Quick clamping system

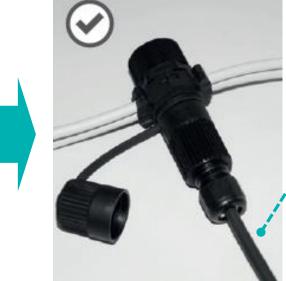




Plug&Socket connector → Fast installation and maintenance

- Quick: It gives power to plug&socket connector (TH384) on branch cables quickly
- The installation time is considerably reduced
- Useful for the installation of modular systems (pre-assembled at the factory or in the field see p.
 12)





Branch cable

- Flexible and solid
- Cable section:
 - $0.5 \div 2.5 \text{ mm}^2$
- Outer diam.:
 - 7.0 ÷ 12.0 mm



Maximum degree of protection IP68→ Outdoor installation

- Reliable: Protected against water jets (IP65) and the effects of continuous immersion in water
- Various applications: the weather resistance allows use in various outdoor applications
 - Used in applications where the main cable is made of 2-single pole cable
- Tested and certified by Nemko and TÜV Rheinland









Closure cap → It can be re-used several times

- Flexible: the connector is available with a closure cap to guarantee maximum flexibility of use
- The closure cap protects the connector when not in use



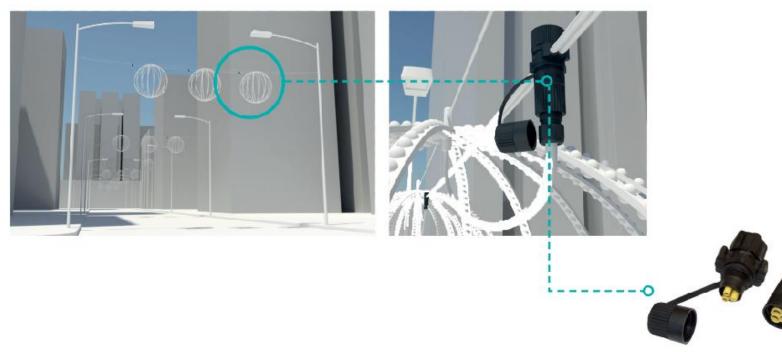






Application example /1

(not exhaustive)



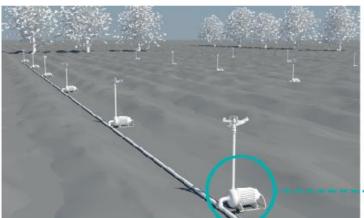
DECORATIVE LIGHTING

- Suitable for the connection of illuminations
- Its <u>quick cabling and easy use</u> make its installation possible also in inconvenient positions





Application example /2





(not exhaustive)

IRRIGATION SYSTEMS

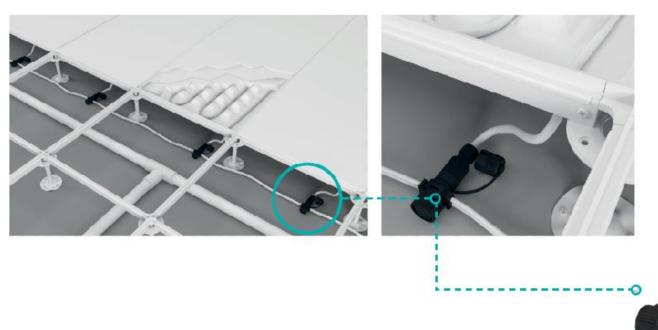
The plug&socket connector with Cable Clamp TH370 can be used for the distribution of electricity up to 17.5A in applications where waterproofing is fundamental to ensure the reliability of the system.





Application example /3

(not exhaustive)



POWER MODULES

- Thanks to its compact dimensions the plug&socket connector with Cable Clamp TH370 facilitates the connection of modular systems even where the space provided is very small
- Wiring the main cable without tools and the branch cable with screw terminal blocks ensure flexible installation in the field by installers



Looking for opportunities in other fields of application



Lighting.

LED, architectural, urban, street, walkable, water submersion, events, swimming pools, trade fair stands, lighting display, stadiums.

Infrastructures.

Road, Tunnel, airport, port, underground, railway, bridge, emergency signs, dam, sports facilities, cable car.





Installation.

Indoor/outdoor electrical installation, junction boxes, switchboards, cable trays, gate and door automation, CCTV.

Transport/ Navigation.

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





Industry.

Automation, industrial machines (wood, food and drinks, packaging, bottling, assembly, etc.), Robots, control systems, industrial cleaning, engines.

Energy production plants. Wind, solar, biogas plants, inverters.



 Present the product in industrial and installation by identifying new opportunities to use it



TEEfamily® range overview

In-line connectors

Number poles⁽¹⁾
Wire cross-section
Outer cable diameter⁽²⁾
IP protection degree

Junction connectors

3 ways

Number poles⁽¹⁾ Wire cross-section Outer cable diameter⁽²⁾ IP protection degree

4 ways

Number poles⁽¹⁾
Wire cross-section
Outer cable diameter⁽²⁾
IP protection degree





IP68

TH390 TH402 2 3 poles 2 6 0.5 - 1.5 mm² 0.5 - 4.1 7.0 - 13.5 mm 7.0 - 20 IP68 IP68

TH392

IP68

2 4 poles

0.5 - 2.5 mm²

7.0 - 13.5 mm

IP68

TH402 TH399
2 6 poles 2 6 poles
0.5 - 4.0 mm² 0.5 - 4.0 mm²
7.0 - 20.0 mm
IP68 IP68

IP68



TH200

IP44

TH209
2 8 poles
0.5 - 4.0 mm²
7.0 - 14.0 mm

IP68

Plug&Play connectors TH381 **TH387 TH405** 2 poles 2 6 poles 2 5 poles 2 3 poles 0.25 - 1.0 mm² 0.25 - 2.5 mm² 0.5 - 2.5 mm² 0.5 - 2.5 mm² 5.0 - 7.0 mm 7.0 - 13.5 mm 7.0 - 12.0 mm 7.0 - 14.0 mm IP68 IP68 IP66/IP68 **IP68**





TH623 TH624
2 3 poles 2 5 poles
0.5 - 2.5 mm² 0.25 - 2.5 mm²
7.0 - 12.0 mm IP68 IP68



TH211

IP65

2 4 poles

0.5 - 4.0 mm²

7.0 - 17.0 mm

Whom to sell



Wholesalers



Lighting OEMs



Installers



New users in other markets



Codes

Supplied in components







Type of connectivity		
Screw terminal blocks	2 codes according to cable size	THB.384.P2A
Insulation piercing contacts	THB.370.A2A THB.370.B2A	THP.384.P2A
Crimp contacts		THF.384.P2A (*) * Crimp not included
Pieces per box	200 pieces	200 pieces
M.O.Q.	200 pieces	200 pieces

How to order (example):

THB.370.A2A

+ THB.384.P2A



Technical information

For further information see data seet



Codes (2 options)

THB.370.A2A

THB.370.B2A

Technical information		
Number of poles	2	2
Nominal current	17.5A	17.5A
Nominal Voltage	400V AC	400V AC
Impulse withstand voltage	4kV	4kV
Degree of protection IP	IP65/IP68 *	IP65/IP68 *
	* Product tested IP68 (5m/1h) positive with cables H07RN-F 1G4/1G2.5 and cables FG7OR 1x2.5	* Product tested IP68 (5m/1h) positive with cables H07RN-F 1G4/1G2.5 and cables FG7OR 1x2.5

Tested and certified by Nemko and TÜV Rheinland







Technical information

For further information see data seet



Codes (2 options)

THB.370.A2A

THB.370.B2A

Technical information		
Information on main cable Flexible cable section min-max Cable diameter min-max	2 single-pole cable 2.5 mm ² - 4.0 mm ² 6.0 mm - 7.0 mm	2 single-pole cables 4.0 mm² - 6.0 mm² 7.0 mm - 8.0 mm
Information on branch cable Flexible or rigid cable section min-max Cable diameter min-max	2-poles cable 0.5 mm ² - 2.5 mm ² 5.0 mm - 12.0 mm	2-poles cable 0.5 mm ² - 2.5 mm ² 5.0 mm - 12.0 mm
Plastic materials	PA66 GF UL94 V2/V0 GWT 850°C/960°C	PA66 GF UL94 V2/V0 GWT 850°C/960°C
Gaskets	TPE-S/Silicone	TPE-S/Silicone



Marketing tools

Tool	Printed	Download	To whom
Brochure	NO	PDF 2m	All
Data sheet	NO	PDF 2hm	All
Installation instruction	YES	PDF 2hm	All
Product Display (see page 20)	YES	-	Wholesales Lighting Show-rooms Meeting rooms
Video	-	https://www.youtube.com/watch?v=8iE9YiSlukE	All
Samples	-	Upon requet	All













