

TH381
TH625

MICRO CONNECTORS AND CURRENT DISTRIBUTORS (IP68/IP69K)



micronnect



High-reliability
electrical connections

MADE IN ITALY

www.techno.it

t **techno**[®]
TECHNOLOGY & INNOVATION

Micro connectors and current distributors Plug and Socket

Precision and quick installation
in small spaces

Choose **innovation** and reliability
Reduce installation and maintenance costs
Extend the possibilities of use

IP68

IP69K

micronnect



TH381



ARCHITECTURAL LIGHTING

Techno products are perfect for
connection of floodlights, facade
and wall luminaires.



LIGHTING IN WATER

Techno products guarantees
protection against external
agents also in case of
permanent submersion.



TH625



TH381



TH381



URBAN AND STREET LIGHTING

Techno products ensure the connection of urban luminaires, built-in and walk-over spotlights. They are useful for the connection of LED modules inside all sources of artificial light in the streets.



INDOOR LIGHTING

Techno products are useful for the connection of indoor appliances where the dimensions of the connector are a very important factor.



ADVERTISING BILLBOARDS AND ROAD SIGNS

Techno products can be used to connect lighting panels and road lane light markers.



EXTRA SAFE



RESISTANT

against the effects of permanent submersion and pressurised water (according to EN60529).

QUICK INSTALLATION

Fewer parts to assemble, fewer installation mistakes, anti-leakage gaskets.

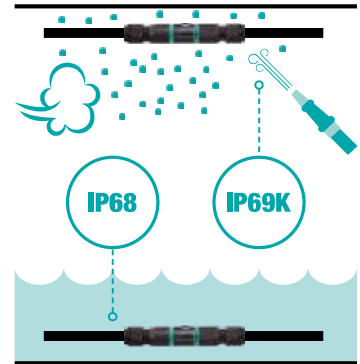
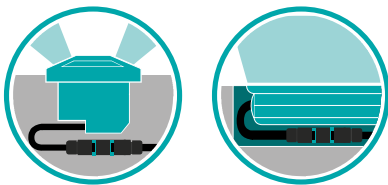


EXTRA COMPACT



CONNECTIONS IN SMALL SPACES

within machinery, equipment and installation systems.



Total protection AGAINST DUST

Total protection against the effects of PERMANENT SUBMERSION AND PRESSURE WATER

EXTRA RAPID

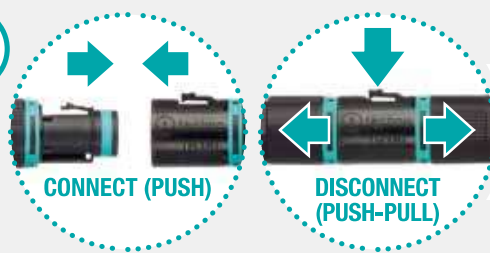


FIELD WIRING INSTALLATION

Screw wire terminals for stranded and solid cables.

RAPID CONNECTION AND DISCONNECTION

Special coupling system ensures the correct fastening. Faster than any screw or bayonet coupling system.



EASY-CLICK SYSTEM

EXTRA ROBUST



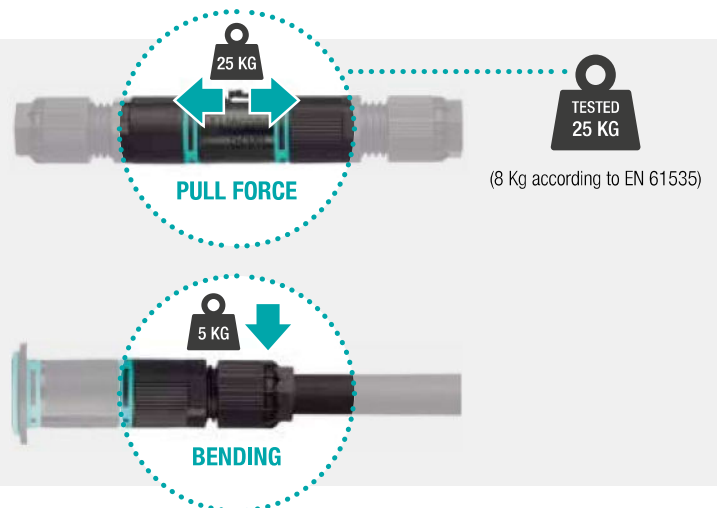
RESISTANT TO CABLE TRACTION

(prevents accidental disconnections) up to 25 kg.

RESISTANT TO CONNECTOR FLEXURE

up to 5 kg.

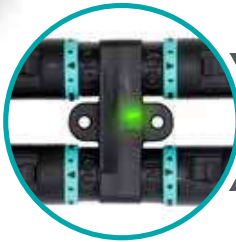
The special patented coupling system ensures the correct fastening between the plug and the socket.



SERIES TH625

CURRENT MICRO-DISTRIBUTOR PLUG AND SOCKET, 4 WAYS (TYPE H), 2 AND 3 POLES, IP68

IP68



LED POWER INDICATOR

Quickly view correct operation of the connector.



RAPID INSTALLATION
of a more and more
advanced plant

xDRY® EXTRA DRY

NO MORE CONDENSATION: REDUCED REPAIRS AND MAINTENANCE COSTS

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



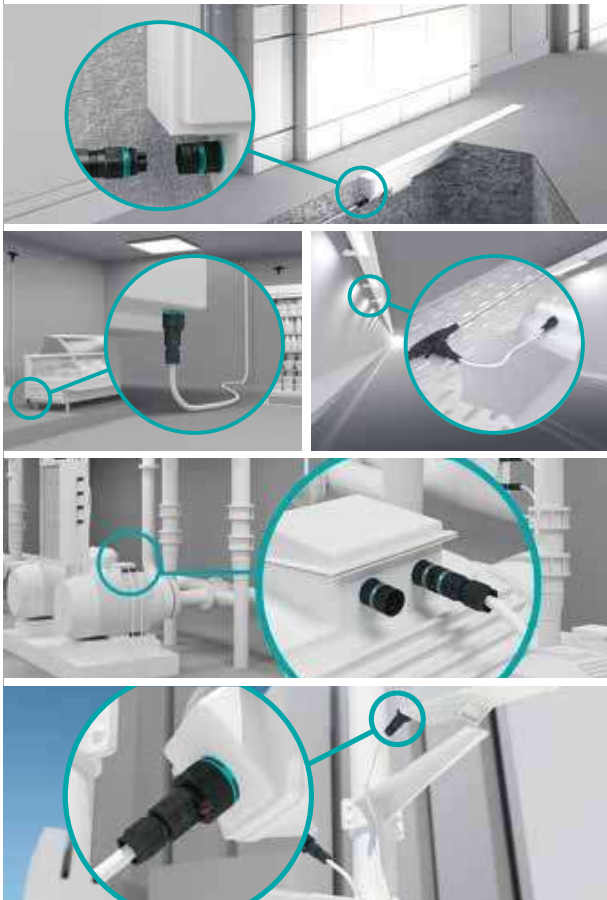
-90% WATER PENETRATION

Important reduction of defects caused by water penetration.



HIGH RELIABILITY

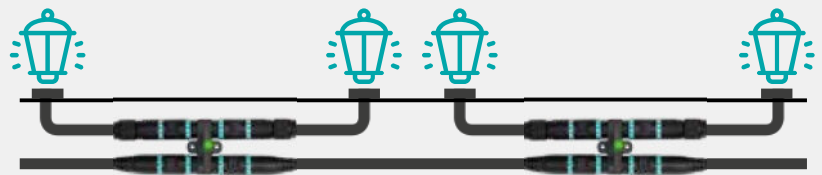
to guarantee electrical continuity over time.



EXTRA FLEXIBLE

USEFUL SOLUTIONS FOR MANY APPLICATIONS

Lighting, installation, automation, industrial machines, robots, control systems, industrial washing, motors, infrastructures, transportation, marine, energy production plants, handling machines, gate and door automation, CCTV.



FOLLOW US



CODES AND TECHNICAL INFORMATION

TH381 micro-connector plug and socket, 2 and 3 poles, IP68/IP69K, screw terminal blocks



Our materials do not contain sulfur which negatively affects the LED lifespan.



PLUG



SOCKET

| N. poles | Markings | Diam. cable min. - max. (mm) | |
|----------|-----------|------------------------------|--|
| 2 | 1 - 2 | 5.8 ... 6.9 | |
| 2 | 1 - 2 | 7.0 ... 8.0 | |
| 3 | L - N - ⊕ | 7.0 ... 8.0 | |
| 3 | L - N - ⊕ | 8.0 ... 9.0 | |

| Code | Pack. (Pieces) | Code | Pack. (Pieces) |
|----------------|----------------|----------------|----------------|
| THB.381.A2A | 200 | THB.381.B2A | 200 |
| THB.381.A2A.L | 200 | THB.381.B2A.L | 200 |
| THB.381.A3E | 200 | THB.381.B3E | 200 |
| THB.381.A3E.L* | 200 | THB.381.B3E.L* | 200 |

NOTE

- (*) Versions for cables of diameter from 8.0 to 9.0 mm available in December 2019
- For cables with a smaller diameter use specific accessories
- Customized markings on request. Contact our Customer Service

KIT PACK

| | | | | |
|---|-----------|-------------|---------------|----|
| 2 | 1 - 2 | 4.0 ... 8.0 | THB.381.A2A.R | 50 |
| 3 | L - N - ⊕ | 5.8 ... 8.0 | THB.381.A3E.R | 50 |

NOTE: KIT includes plug and socket connectors, installation tool, various accessories and instruction sheet



PLUG PANEL



SOCKET PANEL

| N. poles | Markings | Hole/Thread | |
|----------|-----------|----------------------------------|--|
| 2 | 1 - 2 | M16 x 1.5 | |
| 2 | 1 - 2 | M11 (only non-conductive panels) | |
| 3 | L - N - ⊕ | M16 x 1.5 | |
| 3 | L - N - ⊕ | M11 (only non-conductive panels) | |

| Code | Pack. (Pieces) | Code | Pack. (Pieces) |
|-------------|----------------|-------------|----------------|
| THB.381.N2A | 200 | THB.381.P2A | 200 |
| THB.381.L2A | 200 | THB.381.M2A | 200 |
| THB.381.N3E | 200 | THB.381.P3E | 200 |
| THB.381.L3E | 200 | THB.381.M3E | 200 |

NOTE: customized markings on request. Contact our Customer Service

KIT PACK

| | | | | |
|---|-----------|----------------------------------|---------------|----|
| 2 | 1 - 2 | M11/M16 - Diam. cables 4.0 - 8.0 | THB.381.N2A.R | 50 |
| 3 | L - N - ⊕ | M11/M16 - Diam. cables 5.8 - 8.0 | THB.381.N3E.R | 50 |

NOTE: KIT includes plug and socket connectors, installation tool, various accessories and instruction sheet

TECHNICAL INFORMATION

Electrical Data

| | |
|--|------------------------------|
| Operating voltage | 400V AC/DC (48V DC) |
| Operating current | 10A AC (max. 1A DC) |
| Impulse withstand voltage | 4kV |
| Contact resistance | <10 mΩ |
| Insulation resistance | 100 M Ohms |
| Cable section (stranded and solid) min ... max | 0.25 ... 1.0 mm ² |
| Stripping length | 10 mm |
| Dismantling length | max. 20 mm |
| Contact screw terminal blocks | ⌚ max. 0.2 Nm |

Note: Suitable for class 2 (double insulated) max. 250 V AC.

Material characteristics

| | |
|--------------------------------|---|
| Plug and Socket connector body | PA66 GF UL94 V0 (f1) - GWT 960°C ⁽¹⁾ |
| Cable glands | PA66 GF UL94 V2 (f1) - GWT 850°C ⁽¹⁾ |
| Gaskets | TPE |
| Contacts | Silver-plated brass (zinc-plated screws) |
| Corrosion resistance | Salt mist, 1000 hours, 5% salt solutions, 35°C EN60068-2-11 Test Ka; ISO6988 sulfur dioxide |
| Properties | Halogen free - Silicone free |
| Tracking index | PTI 175 |
| Overvoltage category | II |
| Pollution degree | 2 |

Note: ⁽¹⁾ f1: the material is in compliance with the requirements of UV resistance, installation resistance where there is water and submersion resistance as specified in UL 746C regulation.

Mechanical characteristics

| | |
|---|-----------------------|
| Operating temperature min ... max | - 40°C ... +125°C |
| Protection degree (IP) | IP68 (30m/1h) / IP69K |
| Impact resistance (IK) | IK 06 |
| Operating cycles (Connection/Disconnection) | 100 cycles |

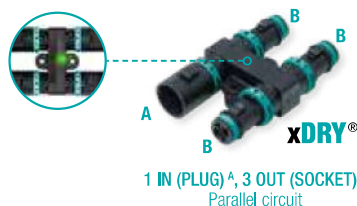
Reference regulations

EN61984
EN61535

TH625 current micro-distributor plug and socket, 4 ways (type H), 2 and 3 poles, IP68



Our materials do not contain sulfur which negatively affects the LED lifespan.



| N. poles | Markings | Diam. cable min. - max. (mm) | |
|----------|-----------|------------------------------|--|
| 2 | 1 - 2 | See series TH381 | |
| 3 | L - N - ⊕ | See series TH381 | |

| Code | Pack. (Pieces) |
|-------------|----------------|
| THH.625.A2A | 50 |
| THH.625.A3E | 50 |

NOTE: plug and socket connectors are not included in the packaging. To be ordered separately (see previous page - TH381 connectors)

KIT PACK

| N. poles | Markings | Diam. cable min. - max. (mm) | Code | Pack. (Pieces) |
|----------|-----------|------------------------------|---------------|----------------|
| 2 | 1 - 2 | 4.0 ... 8.0 | THH.625.A2A.R | 10 |
| 3 | L - N - ⊕ | 5.8 ... 8.0 | THH.625.A3E.R | 10 |

NOTE: KIT includes plug and socket connectors, installation tool, various accessories and instruction sheet

TECHNICAL INFORMATION ⁽²⁾

Electrical Data

| |
|--|
| Operating voltage |
| Operating current |
| Impulse withstand voltage |
| Contact resistance |
| Insulation resistance |
| Operating cycles |
| Cable section (stranded and solid) min ... max |
| Note: suitable for class 2 (double insulated) max. 250 V AC. |

| 2 POLES | 3 POLES |
|------------------------------|------------------------------|
| 400V AC/DC (48V DC) | 400V AC/DC (48V DC) |
| 10A AC (max. 1A DC) | 10A AC (max. 1A DC) |
| 4kV | 4kV |
| <10 mΩ | <10 mΩ |
| 100 M Ohms | 100 M Ohms |
| 100 cycles | 100 cycles |
| 0.25 ... 1.0 mm ² | 0.25 ... 1.0 mm ² |

Material characteristics

| |
|----------------------------|
| Current distributor body |
| Plug and socket connectors |
| Gaskets |
| Contacts |

| |
|---|
| Thermoplastic Hot Melt |
| PA66 GF UL94 V0 (f1) - GWT 960°C ⁽¹⁾ |
| TPE |
| Silver-plated brass (zinc-plated screws) |
| Salt mist, 1000 hours, 5% salt solutions, 35°C EN60068-2-11 Test Ka; ISO6988 sulfur dioxide |
| Halogen free - Silicone free |
| PTI 175 |
| II |
| 2 |

Corrosion resistance

Properties

| |
|----------------------|
| Tracking index |
| Overvoltage category |
| Pollution degree |

Note: ⁽¹⁾ f1: the material is in compliance with the requirements of UV resistance, installation resistance where there is water and submersion resistance as specified in UL 746C regulation.

Mechanical characteristics

| |
|-----------------------------------|
| Operating temperature min ... max |
| Protection degree (IP) |
| Impact resistance (IK) |

| |
|---------------------------------|
| - 40°C ... +125°C |
| IP68 (30m/1h) xDRY [®] |
| IK 06 |

Reference regulations

| |
|---------|
| EN61984 |
| EN61535 |

NOTE: ⁽²⁾ Product certifications are in progress

ACCESSORIES (Contact our Customer Service or learn more on www.techno.it)



Closure cap:
Connector 2 poles
for socket (cod. 6000448GT)
for plug (cod. 6000447GT)



Cable reducers and multiple hole grommets:
1-hole (cod. 6000473GT)
2-holes (cod. 6000461GT)
3-holes (cod. 6000520GT)



Accessory for cable fixing
(cod. 6000462KC)



Allen screw driver (0.9 mm)
(cod. 650000800)



Accessory for connector panel fixing:
connector 2p (cod. 6000476KC)
connector 3p (cod. 6000531KC)

Connector 3 poles
for socket (cod. 6000521GT)
for plug (cod. 6000447GT)

CONNECTORS WITH CABLE AND CUSTOM SOLUTIONS

The micron,nect[®] series of connectors are available pre-wired and overmoulded with cables. Techno also offer customized solutions. Contact our Customer Service for more information.





Techno s.r.l.

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Using an App for QR code reader
and your smartphone camera.
FIND OUT HOW AND WHERE TO BUY



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