



TH381
TH625

MICRO CONNECTORS AND CURRENT DISTRIBUTORS (IP68/IP69K)

micronnect



High-reliability
electrical connections

MADE IN ITALY

www.techno.it

 **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.



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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.

SERIES TH381

MICRO-CONNECTOR PLUG AND SOCKET, 2 AND 3 POLES, IP68/IP69K, SCREW TERMINAL BLOCKS



EXTRA SAFE

RESISTANT

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

QUICK INSTALLATION

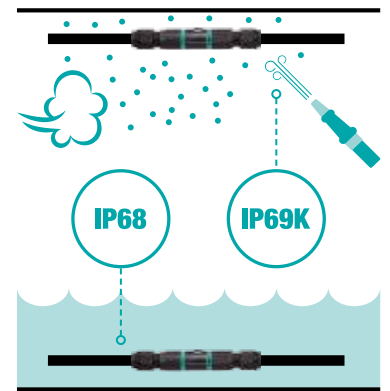
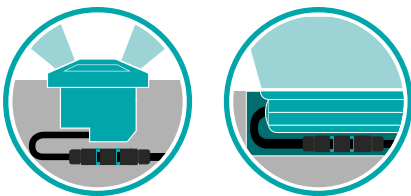
Fewer parts to assemble, fewer installation mistakes, anti-leakage gaskets.



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

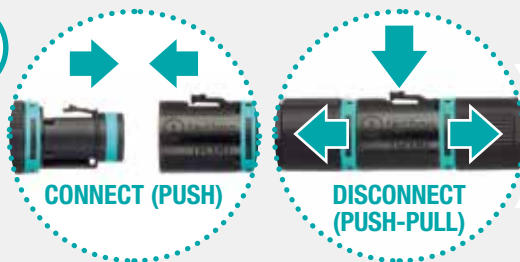
EXTRA RAPID

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

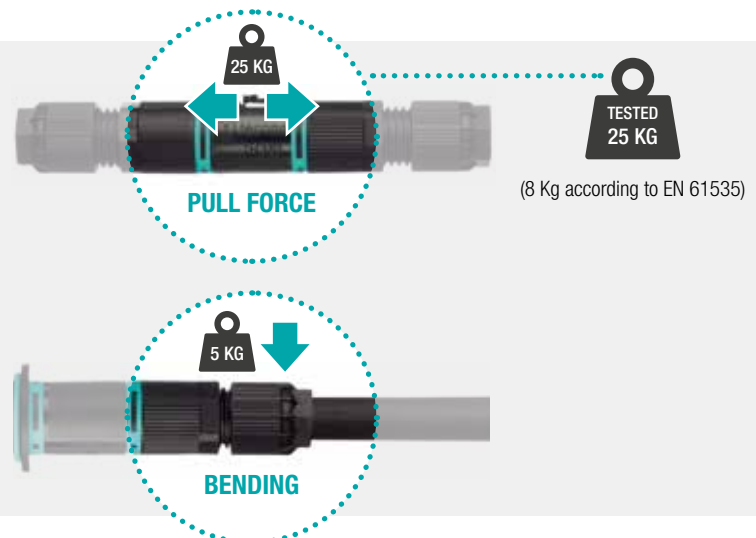
RESISTANT TO CABLE TRACTION

(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.

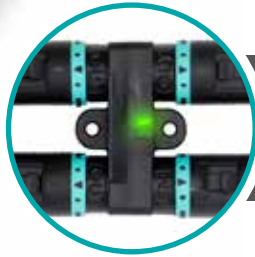


(8 Kg according to EN 61535)

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.

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.

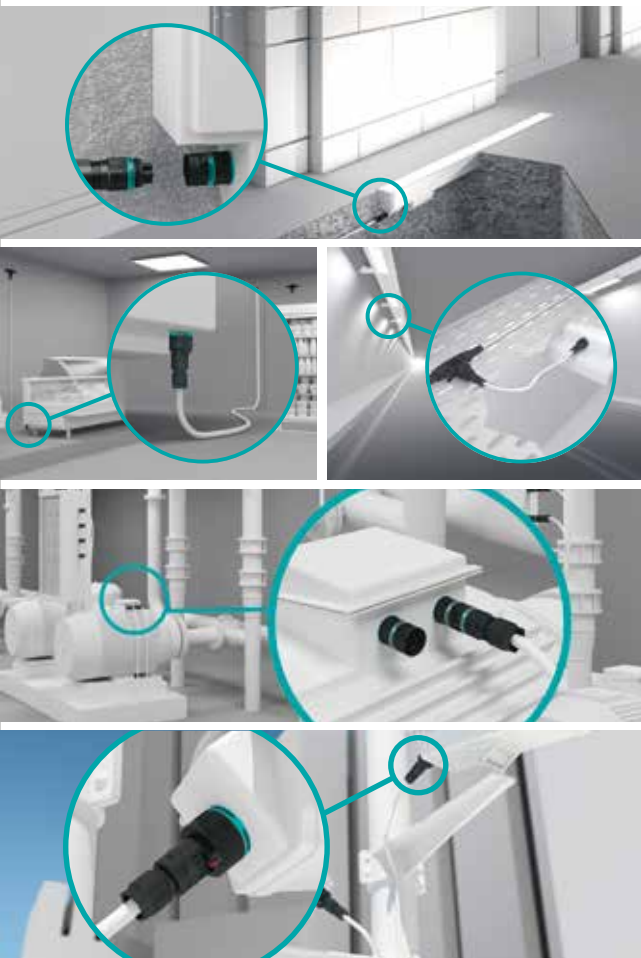
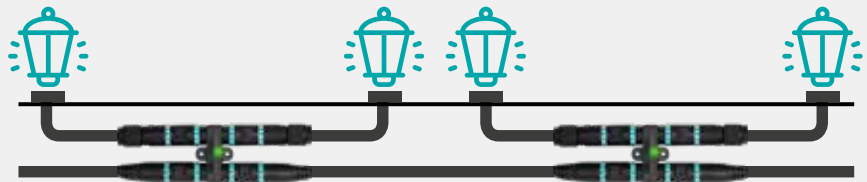


RAPID INSTALLATION
of a more and more advanced plant

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.



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)	Code	Pack. (Pieces)	Code	Pack. (Pieces)
2	1 - 2	5.8 ... 6.9	THB.381.A2A	200	THB.381.B2A	200
2	1 - 2	7.0 ... 8.0	THB.381.A2A.L	200	THB.381.B2A.L	200
3	L - N - ⊕	7.0 ... 8.0	THB.381.A3E	200	THB.381.B3E	200
3	L - N - ⊕	8.0 ... 9.0	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

N. poles	Markings	Diam. cable min. - max. (mm)	Code	Pack. (Pieces)
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	Code	Pack. (Pieces)	Code	Pack. (Pieces)
2	1 - 2	M16 x 1.5	THB.381.N2A	200	THB.381.P2A	200
2	1 - 2	M11 (only non-conductive panels)	THB.381.L2A	200	THB.381.M2A	200
3	L - N - ⊕	M16 x 1.5	THB.381.N3E	200	THB.381.P3E	200
3	L - N - ⊕	M11 (only non-conductive panels)	THB.381.L3E	200	THB.381.M3E	200

NOTE: customized markings on request. Contact our Customer Service

KIT PACK

N. poles	Markings	Hole/Thread	Code	Pack. (Pieces)
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	
Halogen free - Silicone free	

Properties

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

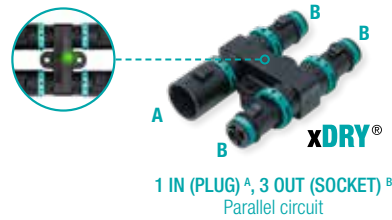
Reference regulations

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)	Code	Pack. (Pieces)
2	1 - 2	See series TH381	THH.625.A2A	50
3	L - N - ⊕	See series TH381	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⁾

	2 POLES	3 POLES
Electrical Data		
Operating voltage	400V AC/DC (48V DC)	400V AC/DC (48V DC)
Operating current	10A AC (max. 1A DC)	10A AC (max. 1A DC)
Impulse withstand voltage	4kV	4kV
Contact resistance	<10 mΩ	<10 mΩ
Insulation resistance	100 M Ohms	100 M Ohms
Operating cycles	100 cycles	100 cycles
Cable section (stranded and solid) min ... max	0.25 ... 1.0 mm ²	0.25 ... 1.0 mm ²
Note: suitable for class 2 (double insulated) max. 250 V AC.		
Material characteristics		
Current distributor body	Thermoplastic Hot Melt	
Plug and socket connectors	PA66 GF UL94 V0 (f1) - GWT 960°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) xDRY®	
Impact resistance (IK)	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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Techno reserves the right to make any adjustments to the information contained herein at any time without notice. The dimensions and the specifications in this catalogue are for reference purpose only and are subject to change without notice. Consult Techno for the latest dimensions and design specifications or visit our web site www.techno.it

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GET CONNECTED

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



CONTACT US BY PHONE



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CONTACT US BY EMAIL



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