



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®



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



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URBAN AND STREET LIGHTING

Techno products ensures 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.

micronnect

EXTRA SAFE

RESISTANT

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

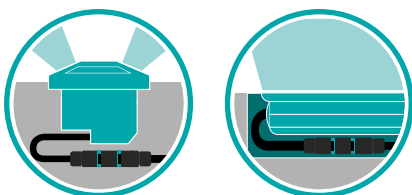
QUICK INSTALLATION

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

EXTRA COMPACT

CONNECTIONS IN SMALL SPACES

within machinery, equipment and installation systems.



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.

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.

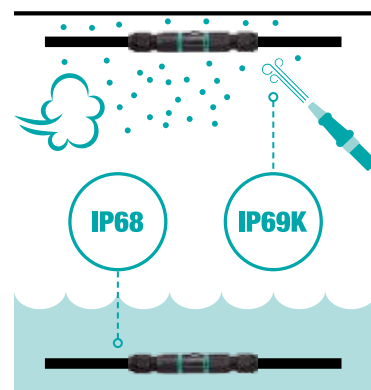
IP68

IP69K

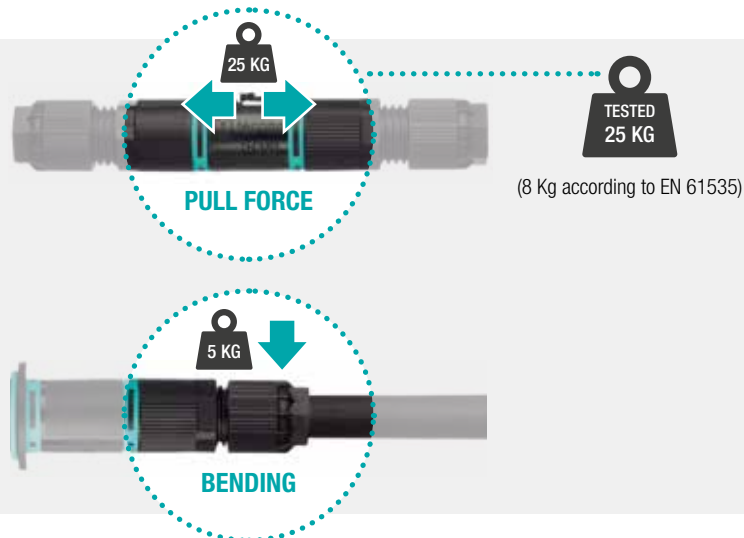


Total protection
AGAINST DUST

Total protection against
the effects of
PERMANENT SUBMERSION
AND PRESSURE WATER



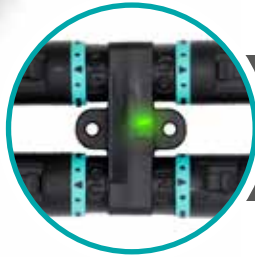
**EASY-CLICK
SYSTEM**



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

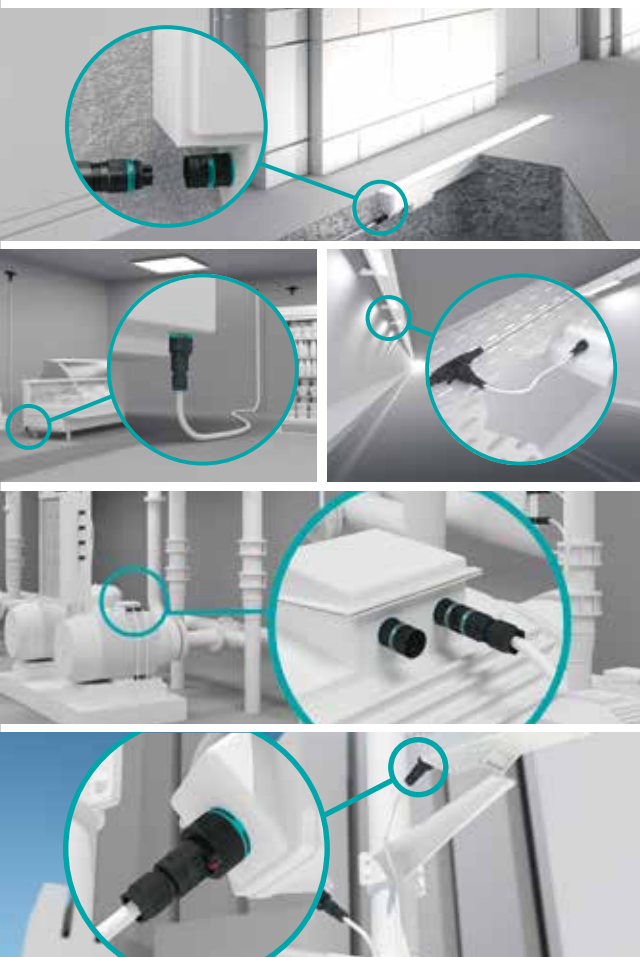
Important reduction of defects caused by water penetration.

HIGH RELIABILITY

to guarantee electrical continuity over time.



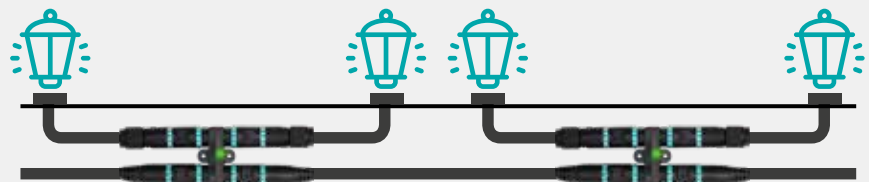
RAPID INSTALLATION
of a more and more
advanced plant



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.



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
Operating current
Impulse withstand voltage
Contact resistance
Insulation resistance
Cable section (stranded and solid) min ... max
Stripping length
Dismantling length
Contact screw terminal blocks
Note: Suitable for class 2 (double insulated) max. 250 V AC.

Material characteristics

Plug and Socket connector body
Cable glands
Gaskets
Contacts

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)
Operating cycles (Connection/Disconnection)

Reference regulations

2 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
0.25 ... 1.0 mm ²	0.25 ... 1.0 mm ²
10 mm	10 mm
max. 20 mm	max. 20 mm
↺ max. 0.2 Nm	↺ max. 0.2 Nm

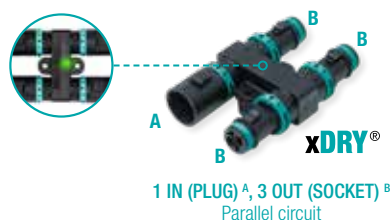
3 POLES

PA66 GF UL94 V0 (f1) - GWT 960°C ⁽¹⁾
PA66 GF UL94 V2 (f1) - GWT 850°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
- 40°C ... +125°C
IP68 (30m/1h) / IP69K
IK 06
100 cycles
100 cycles
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

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 mm²	0.25 ... 1.0 mm²
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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