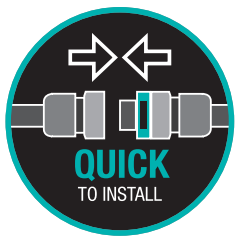


THB381E series

IP68 SNAP-LOCK PANEL-MOUNT MICRO CONNECTOR

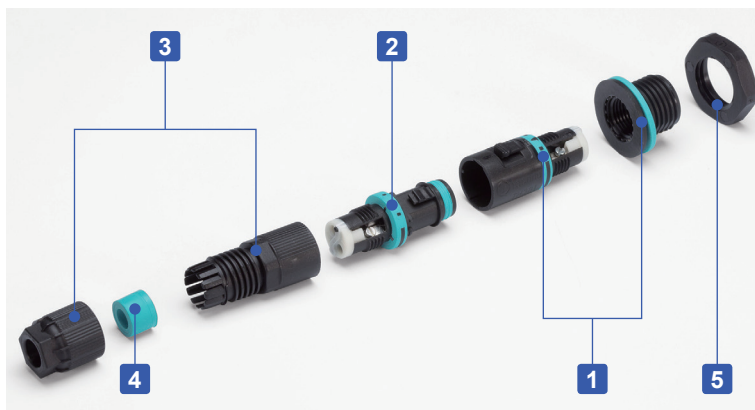


- IP68 snap-lock panel-mount micro connector of just 14mm in diameter.
- Easy connection / disconnection by simply snapping it to lock, and pulling while pressing the tab to release.
- Plug-socket panel-mount type consisting of the plug side (male) and socket side (female).



Technical Data

Protection class : IP68 3bar/1h (1 hour / 30m depth)
 Operating temperature : -40°C ~ +125°C
 EN61984 compliant.



Specifications

THB381E-2P-7 • THB381E-2P-8

Rated voltage	AC500V (12V~60V DC)
Rated current	10A AC/DC
Applicable wire	Stranded wire 0.25mm ² ~ 1.0mm ²
Impulse withstand voltage	4kV
Number of insertion/extraction	100 times

THB381E-3P-7 • THB381E-3P-8

Rated voltage	AC500V
Rated current	10A AC
Applicable wire	Stranded wire 0.25mm ² ~ 1.0mm ²
Impulse withstand voltage	4kV
Number of insertion/extraction	100 times

Components

No.	Part name	Pcs	Material	Color / Finish
1	Plug	1	PA66GF (UL94V-0) • TPE	Black • Green
2	Socket	1	PA66GF (UL94V-0) • TPE	Black • Green
3	Cable gland	1	PA66 (UL94V-2)	Black
4	Sealing insert	1	TPE	Green
5	Lock nut	1	PA66 (UL94V-2)	Black

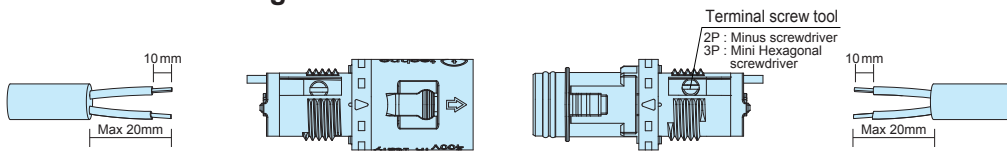
■ PA66 = Polyamide 66

■ PA66GF = Glass fiber filled polyamide 66

Terminal sequence



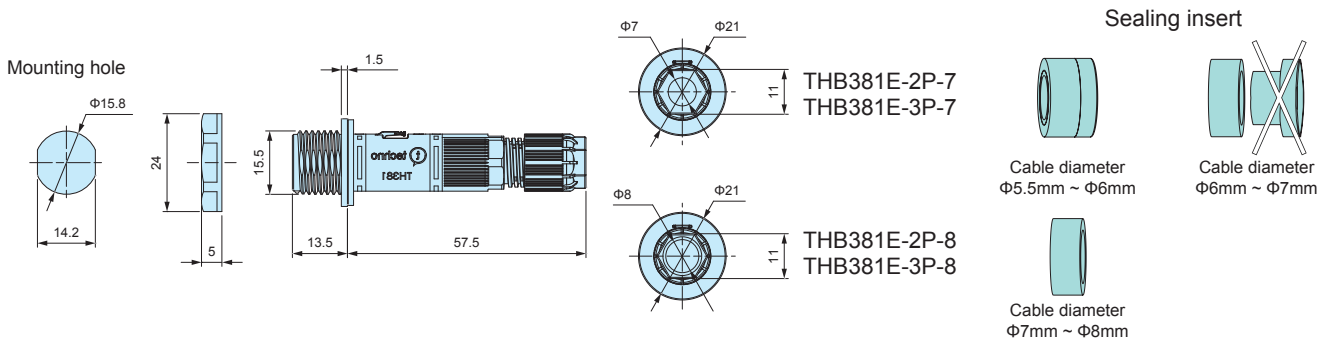
Wire connection diagram



- Screw type connection method; soldering or special tools are not required.
- For 2P models, use a flathead (minus) screwdriver of tip width 3mm.
 For 3P models, use a hexagonal screwdriver (tip width of 0.9mm width across flats).
- Wire connection diagram above is for 2P models.
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.

THB381E dimensions

■ DXF/DWG/PDF drawings available on our website.



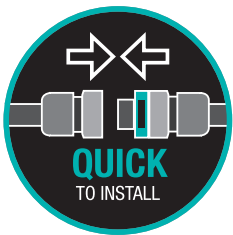
Product no. / Details

Product no.	Cable range	Number of poles
THB381E-2P-7	Φ5.5 ~ Φ7.0	2P
THB381E-3P-7	Φ5.5 ~ Φ7.0	3P
THB381E-2P-8	Φ7.0 ~ Φ8.0	2P
THB381E-3P-8	Φ7.0 ~ Φ8.0	3P

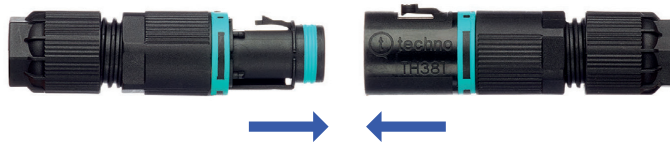
■ Applicable cable size range can be expanded by removing the inner sealing insert.

Accessories (Optional parts)

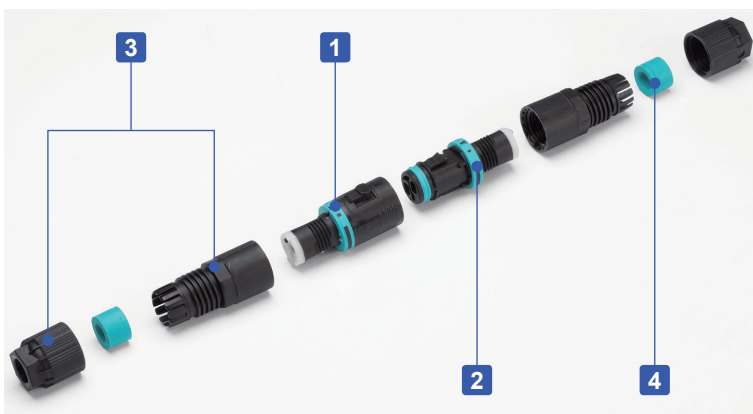




- IP68 snap-lock micro connector of just 14mm in diameter.
- Easy connection / disconnection by simply snapping it to lock, and pulling while pressing the tab to release.
- Plug-socket connector type consisting of the plug side (male) and socket side (female).



Technical Data
Protection class : IP68 3bar/1h (1 hour / 30m depth) Operating temperature : -40°C ~ +125°C EN61984 compliant.



Specifications

THB381-2P-7 • THB381-2P-8

Rated voltage	AC500V (12V ~ 60V DC)
Rated current	10A AC/DC
Applicable wire	Stranded wire 0.25mm ² ~ 1.0mm ²
Impulse withstand voltage	4kV
Number of insertion/extraction	100 times

THB381-3P-7 • THB381-3P-8

Rated voltage	AC500V
Rated current	10A AC
Applicable wire	Stranded wire 0.25mm ² ~ 1.0mm ²
Impulse withstand voltage	4kV
Number of insertion/extraction	100 times

Components

No.	Part name	Pcs	Material	Color / Finish
1	Plug	1	PA66GF (UL94V-0) • TPE	Black • Green
2	Socket	1	PA66GF (UL94V-0) • TPE	Black • Green
3	Cable gland	2	PA66 (UL94V-2)	Black
4	Sealing insert	2	TPE	Green

■ PA66 = Polyamide 66
■ PA66GF = Glass fiber filled polyamide 66

Terminal sequence

Plug side (Male)



THB381-2P-□



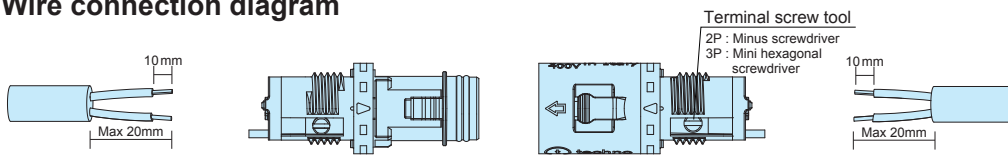
THB381-3P-□



Socket side (Female)



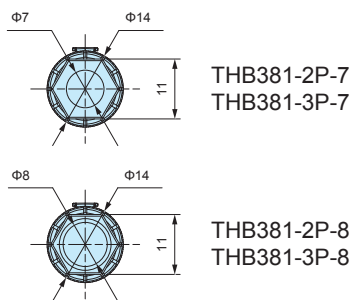
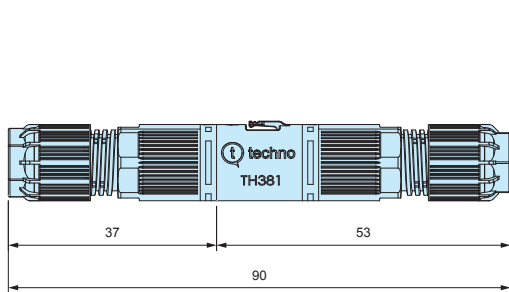
Wire connection diagram



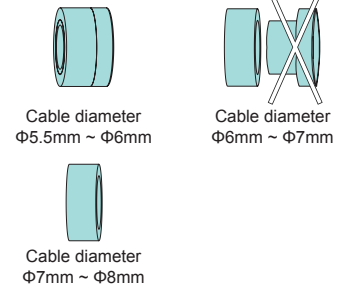
- Screw type connection method; soldering or special tools are not required.
- For 2P models, use a flathead (minus) screwdriver of tip width 3mm.
For 3P models, use a hexagonal screwdriver (tip width of 0.9mm width across flats).
- Wire connection diagram above is for 2P models.
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.

THB381 dimensions

■ DXF/DWG/PDF drawings available on our website.



Sealing insert



Product no. / Details

Product no.	Cable range	Number of poles
THB381-2P-7	Φ5.5 ~ Φ7.0	2P
THB381-3P-7	Φ5.5 ~ Φ7.0	3P
THB381-2P-8	Φ7.0 ~ Φ8.0	2P
THB381-3P-8	Φ7.0 ~ Φ8.0	3P

■ Applicable cable size range can be expanded by removing the inner sealing insert.

Accessories (Optional parts)



Sealing insert
See page Tool-2






Exclusive tightening tool
See page Tool-2



Mini hexagonal screwdriver
See page Tool-2

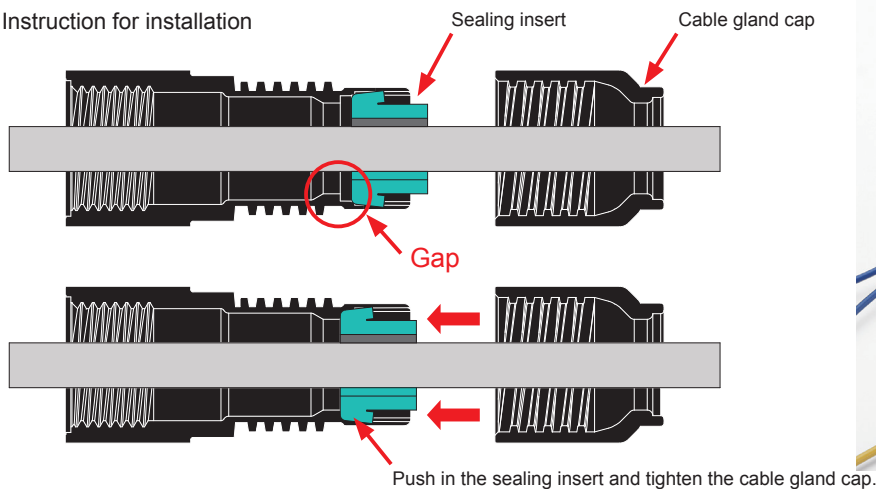
SEALING INSERT for THB381 • 381E

Product no. / Details

Product no.	Appearance	Cable range	Pack of	Material
6000473GT		Φ3.0 ~ Φ5.0mm	10	TPE
6000461GT		Φ1.9 ~ Φ2.5mm	10	TPE
6000520GT		Φ1.9 ~ Φ2.5mm	10	TPE

- Recommended for use with small diameter cables.
- 6000473GT is not suitable for THB381-2P-8, 381-3P-8, 381E-2P-8 and 381E3P-8.
- The outer diameter of 6000461GT and 6000520GT is about 1mm larger. The brim can be rolled up during installation.

Instruction for installation



EXCLUSIVE TIGHTENING TOOL for THB381 • 381E

Product no. / Details

■ PA66GF = Glass fiber filled polyamide 66

Product no.	Suitable models	Material / Color
6000462KC	THB381 • THB381E	PA66GF / Black

- Dedicated locking tool for tightening of the cable gland cap.
- Tighten until the tool slips and spins idly around.



MINI HEXAGONAL SCREWDRIVER for THB381-3P • 381E-3P

- Hexagonal screwdriver with a tip of 0.9mm width across flats.
- For terminal screws on THB381-3P and 381E-3P.



Product no. / Details

Product no.	Suitable models
650000800	THB381-3P • THB381E-3P



SEALING PLUG CAP for THB381E

■ DXF/DWG/PDF drawings available on our website.



Installation example



Installation example on THB381E



- Protect plug from dust or foreign objects when not in use. Material : Cap / Polyamide 66 • Ring / Silicone.
- Sealing plug caps are not waterproof.

Product no. / Details

Product no.	Suitable models	Material / Color
6DB057400	THB381E - Plug side	PA66 • Silicone / Black

SEALING SOCKET CAP for THB381E



■ DXF/DWG/PDF drawings available on our website.



Installation example



Installation example on THB381E



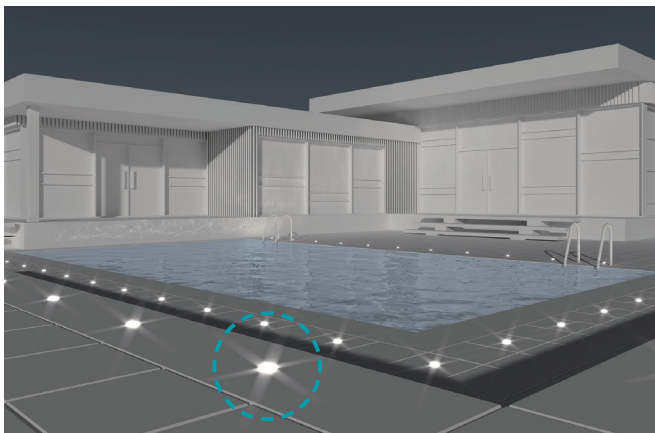
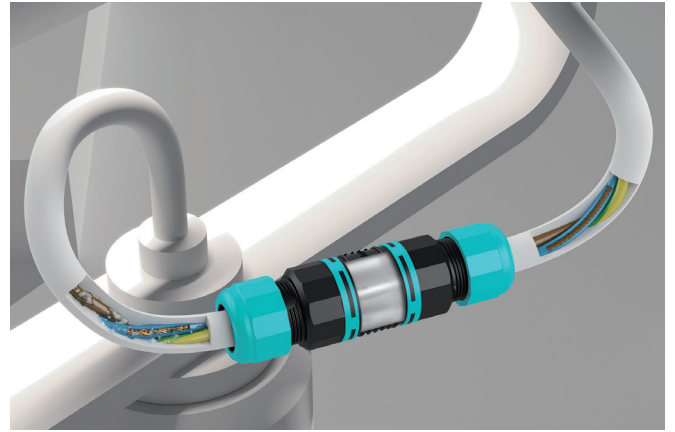
- Protect socket from dust or foreign objects when not in use. Material : Cap / Polyamide 66 • Ring / Silicone.
- Sealing socket caps are not waterproof.

Product no. / Details

Product no.	Suitable models	Material / Color
6DB057300	THB381E - Socket side	PA66 • Silicone / Black

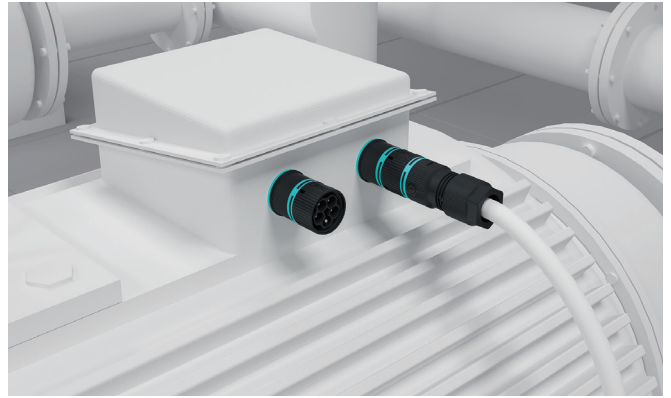
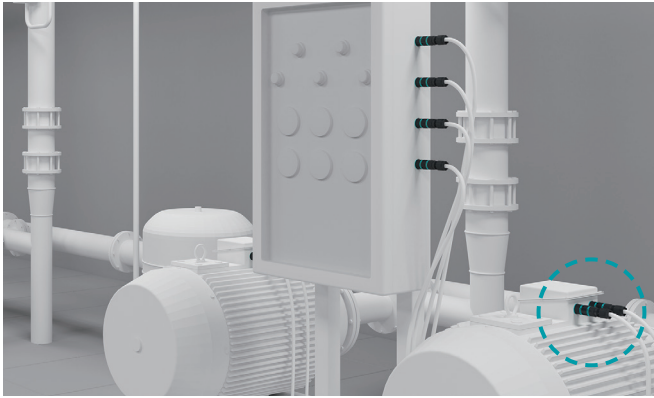
Application Example - Waterproof Connector

Outdoor LED Lighting Connection

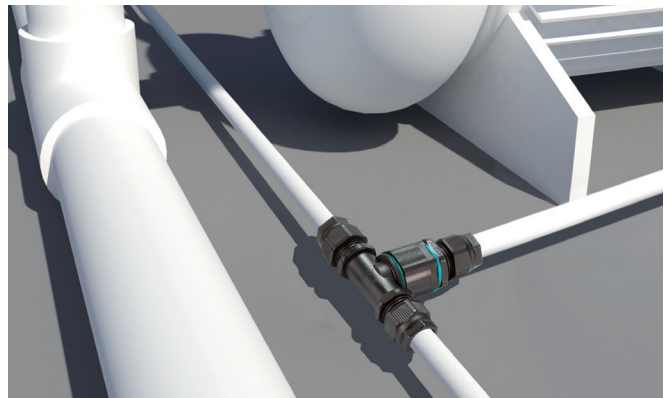
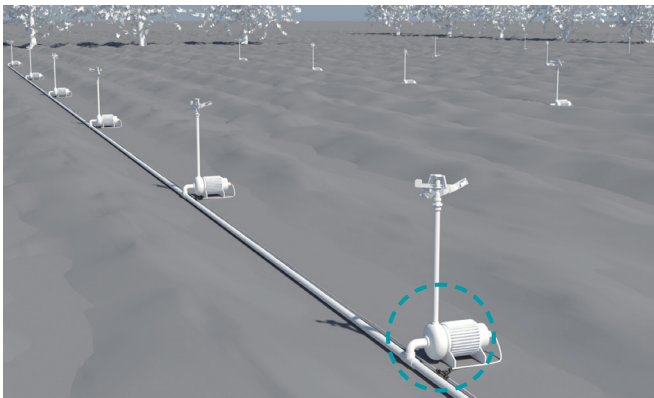


Application Example-1

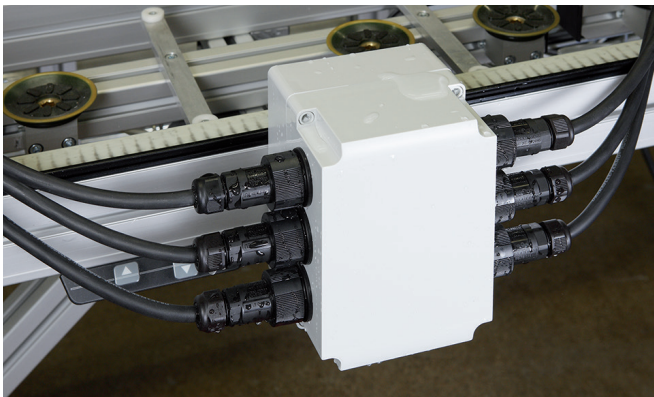
Industrial Motor Connection



Sprinkler System Connection



Power / Sensor Signal Relay in Factory Automation



Machinery



Circuit Breaker Connector



Underground • Underfloor Wiring

