

THB391E series

IP68 PANEL-MOUNT COMPACT RELAY CONNECTOR



- Plug-socket panel-mount type consisting of the plug side (male) and socket side (female).
- A screw type wiring connection is adopted, allowing for easy installation and removal.
- 2P, 3P and 4P pole models are available.

Technical Data

Protection class : IP68 2bar/3h (3 hours / 20m depth)
Operating temperature : -40°C ~ +125°C
EN60529, EN60998 compliant.

Specifications

Rated voltage	AC450V
Rated current	17.5A
Applicable wire	Stranded wire 0.25mm ² ~ 1.5mm ²



Components

No.	Part name	Pcs	Material	Color / Finish
1	Terminal block	1	PA66GF (UL94V-0) • TPE	Black • Green
2	Cable gland	1	PA66 (UL94V-0)	Black • Green
3	Sealing insert	1	TPE	Green
4	Socket	1	PA66 • Silicone Rubber	Black • Green
5	Locknut	1	PA66 (UL94V-0)	Black
-	Terminal	4~6	Brass	Nickel plated
-	Screw	4~8	Steel	Zinc plated

Accessories (Optional parts)



Sealing insert
See page THB391E-3



Exclusive tightening tool
See page THB391E-3

Terminal sequence



Insert the cable according to the terminal combination.

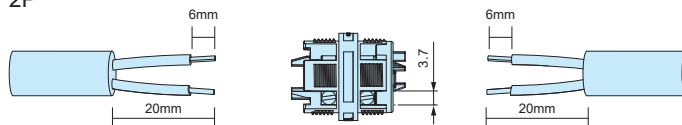


Tighten the screw to complete the connection.

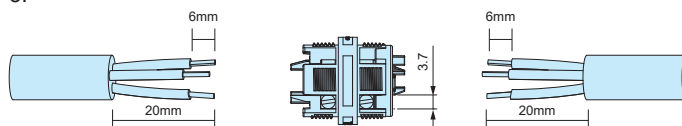
- Screwdriver flathead tip width of 3mm is recommended.
- Screws may be screwed in firmly. Use a screwdriver with proper grip handles to loosen it.

Wire connection diagram

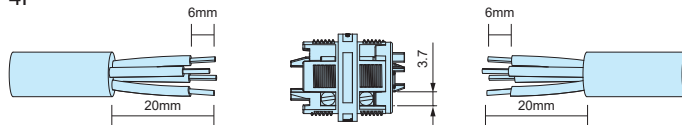
2P



3P

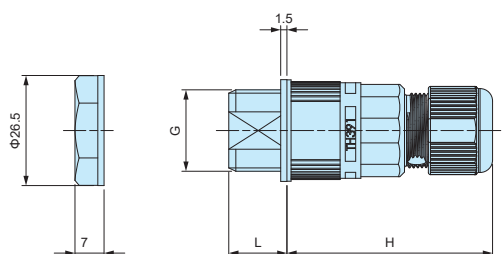


4P

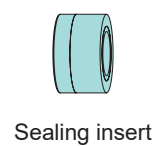
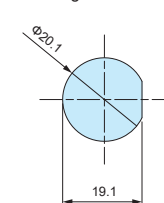


THB391E dimensions

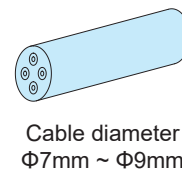
■ DXF/DWG/PDF drawings available on our website.



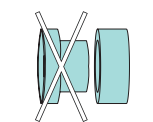
Mounting hole dimension



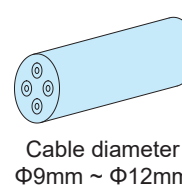
Sealing insert



Cable diameter
Φ7mm ~ Φ9mm



Sealing insert

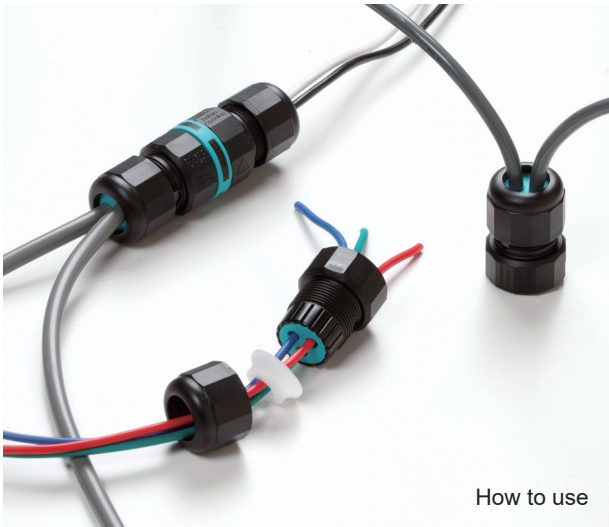


Cable diameter
Φ9mm ~ Φ12mm

Product no. / Details

Product no.	L	H	G	Cable range	Mounting thickness (mm)	Number of poles
THB391E-2P	14	49.5	M20×1.5	Φ7 ~ Φ12	6.5	2P
THB391E-3P	14	49.5	M20×1.5	Φ7 ~ Φ12	6.5	3P
THB391E-4P	14	49.5	M20×1.5	Φ7 ~ Φ12	6.5	4P

SEALING INSERT for THB391E



How to use

- Optional sealing insert for THB391E.
- Recommended to be used to change the compatible wire diameter, or for installation of multiple wires.
- 6000347LA cap can be used to prevent the rubber bushing from protruding, as well as stabilizing the waterproof performance when using wire of diameter 7.0mm or smaller.

Product no. / Details

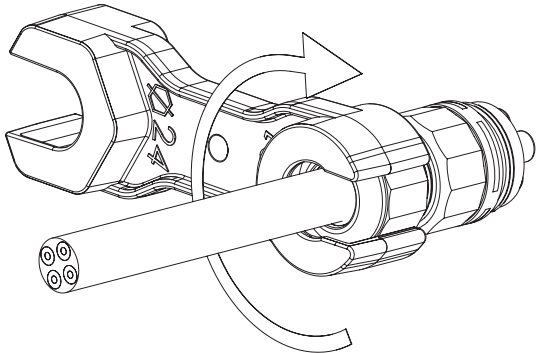
Product no.	Appearance	Cable range	Pack of	Material
6000338GT		Blind insert without hole	10	TPE
6000377GT		Φ2.5 ~ Φ4.0mm	10 each	TPE・POM
6000339GT		Φ5.0 ~ Φ7.0mm	10 each	TPE・POM
6000340GT		Φ3.0 ~ Φ4.5mm	10 each	TPE・POM
6000341GT		Φ4.5 ~ Φ6.0mm	10	TPE
6000342GT		Φ2.5 ~ Φ4.5mm	10	TPE
6000343GT		Φ2.5 ~ Φ4.0mm	10	TPE
6000347LA		Cap for cables sized Φ7.0mm or smaller	10	POM

■ 6000347LA cap cannot be used with 600341GT and 600343GT

EXCLUSIVE TIGHTENING TOOL for THB・THS



How to use



- Dedicated locking tool for tightening of the cable gland cap.

Product no. / Details

Product no.	Material / Color
6000337BC	PA66GF / Black

THB391 series

IP68 COMPACT RELAY CONNECTOR



- IP68 compact relay connector with an integrated cable gland and terminal block structure.
- A screw type wiring connection is adopted, allowing for easy installation and removal.
- 2P, 3P and 4P pole terminal models are available.



Technical Data

Protection class :
 IP68 2bar/3h (3hours / 20m depth)
 Operating temperature : -40°C ~ +125°C
 EN60529, EN60998 compliant

Specifications

Rated voltage	AC450V
Rated current	17.5A
Applicable wire	Stranded wire 0.5mm ² ~ 2.5mm ²

Components

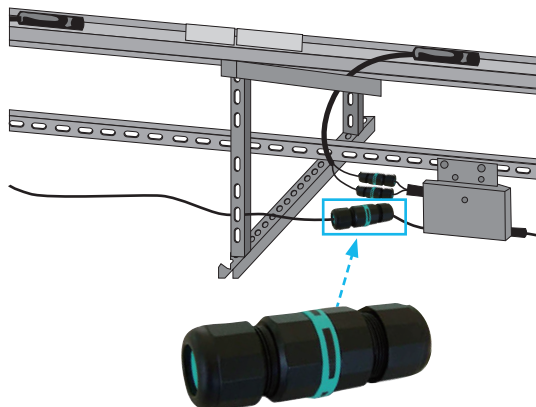
No.	Part name	Pcs	Material	Color / Finish
1	Body	1	PA66GF (UL94V-0) • TPE	Black • Green
2	Cable gland	2	PA66 (UL94V-2)	Black
3	Sealing insert	2	TPE	Green
-	Terminal	2 ~ 4	Brass	Nickel plated
-	Terminal screw (M3 slotted)	4 ~ 8	Steel	Zinc plated

■ PA66 = Polyamide 66

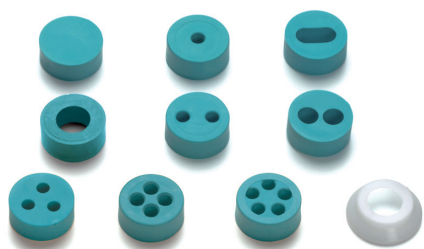
■ PA66GF = Glass fiber filled polyamide 66

- Suitable for use as power or sensor signal relay of industrial plant, machining instrument, outdoor LED lighting, underground wiring, marine equipment where waterproof is required.

Installation example



SEALING INSERT for THA • THB • THS



- Optional sealing insert for THA209, THB387L, 387LE, 389, 389E, 390, 399Y, 400, 402T, 405, 406, THS389 and 389E.

(Not applicable to be used for THB381, 381E, 387, 387E, 391 and 392 series.)

- Recommended to be used to change the compatible wire diameter, or for installation of multiple wires.
- 6000087LF cap can be used to prevent the rubber bushing from protruding, as well as stabilizing the waterproof performance when using wire of diameter 7.0mm or smaller.

Product no. / Details

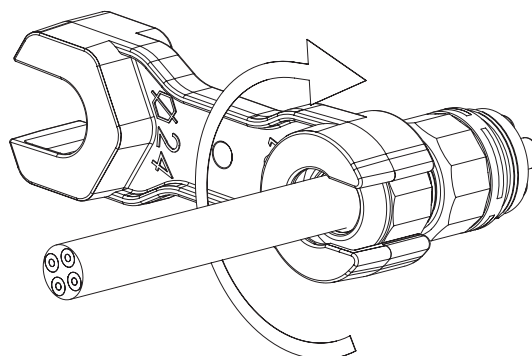
Product no.	Appearance	Cable range	Material	Pack of
600013700		Blind insert without hole	TPE	10
600012700		11mm × 5.5mm	TPE	10
600037000		Φ4.0 ~ Φ6.5mm	TPE • POM	10 each
604001100		Φ5.5 ~ Φ9.5mm Use fixing cap for cables sized Φ7.0mm or smaller	TPE • POM	10 each
600013600		Φ2.0 ~ Φ4.0mm	TPE • POM	10 each
600012500		Φ2.0 ~ Φ4.0mm	TPE • POM	10 each
600030600		Φ4.5 ~ Φ6.0mm	TPE	10
600012600		Φ2.0 ~ Φ4.0mm	TPE	10
600018200		Φ2.0 ~ Φ3.5mm	TPE	10
600022400		Φ2.5 ~ Φ3.5mm	TPE	10
6000087LF		Cap for cables sized Φ7.0mm or smaller	POM	10

- 6000087LF cap cannot be used with 600030600 and 600022400

EXCLUSIVE TIGHTENING TOOL for THB • THS



How to use



- Dedicated locking tool for tightening of the cable gland cap.

Product no. / Details

- PA66GF = Glass fiber filled polyamide 66

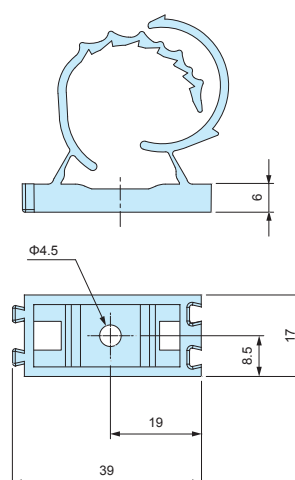
Product no.	Material / Color	Suitable models
6000337BC	PA66GF / Black	THB387 • 387E • 387L • 387LE • 389 • 389E • 390 • 390T • 391 • 392 • 399Y • 400 • 402T • 405 • 406 • THS389 • 389E

EXCLUSIVE BRACKET for THB



- Optional bracket for affixing onto panels, poles etc.
- Recommended for affixing / securing connectors onto a surface.

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



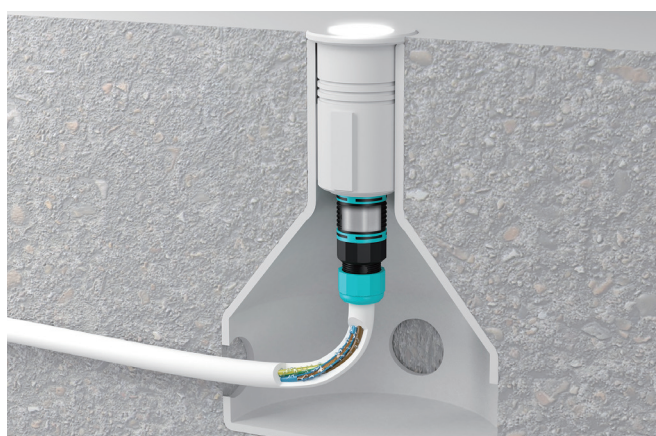
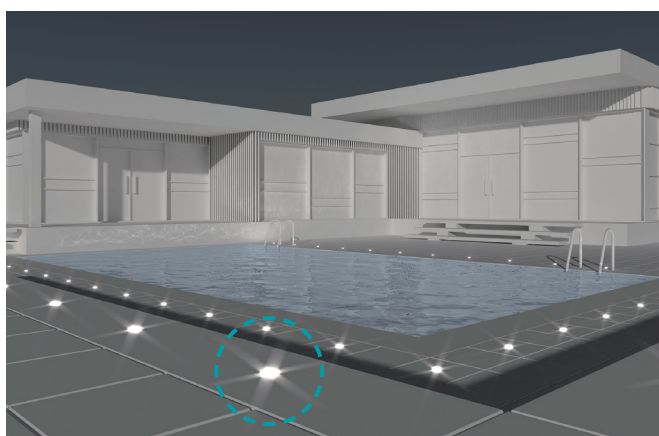
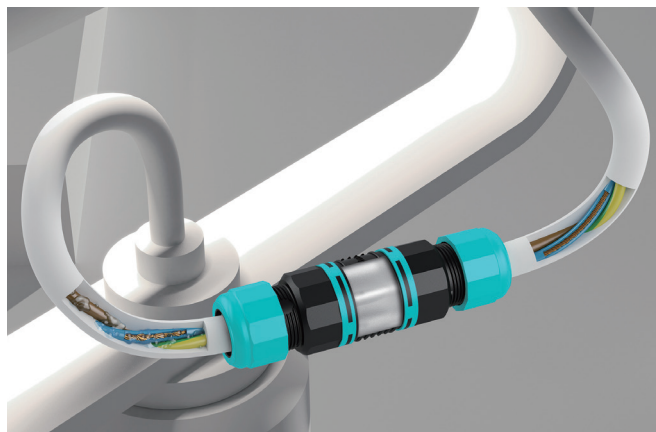
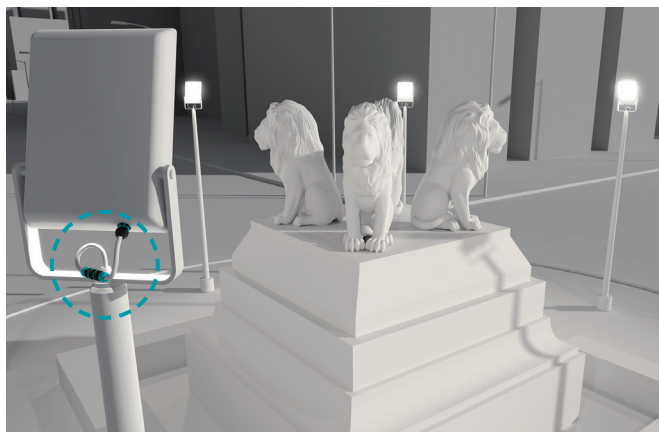
Product no. / Details

■ PA66 = Polyamide 66

Product no.	Material / Color	Suitable models
6000302CC	PA66 / Black	THB387 • 387L • 390 • 390T • 391 • 399Y • 400 • 402T • 405

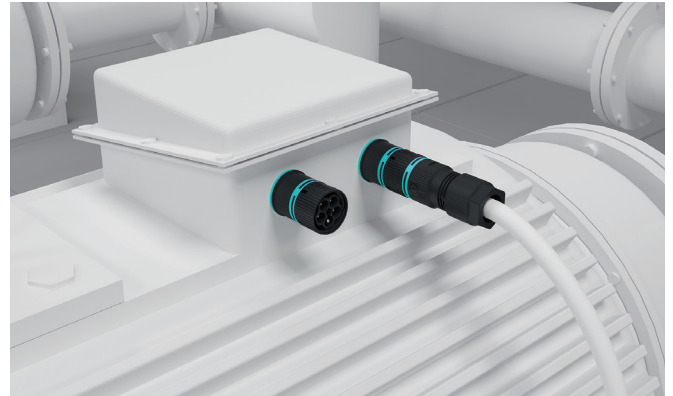
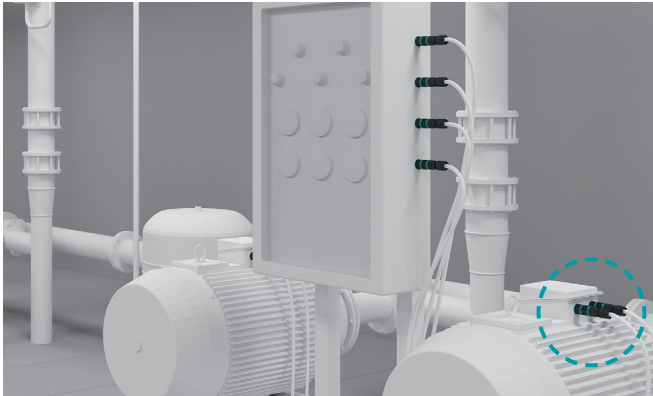
Application Example - Waterproof Connector

Outdoor LED Lighting Connection

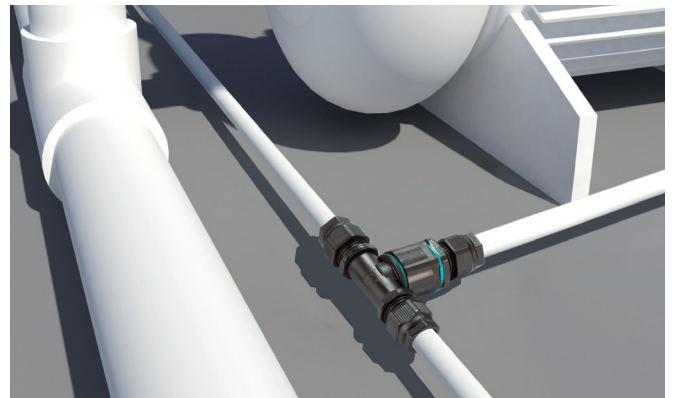
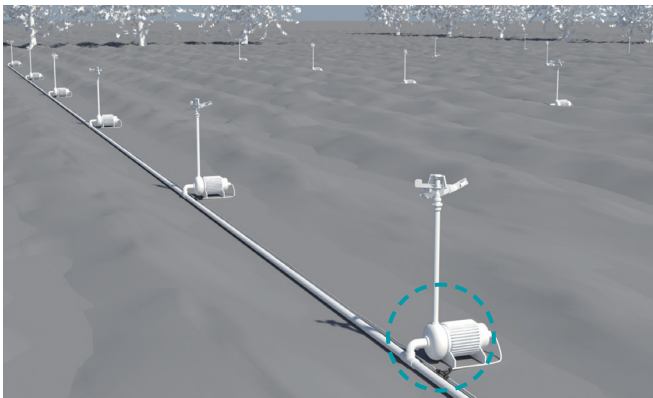


Application Example-1

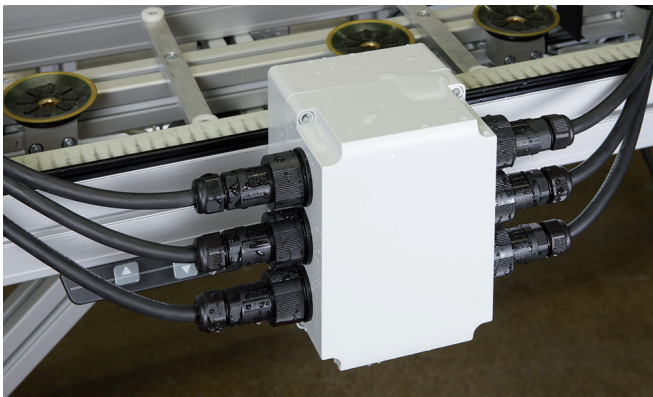
Industrial Motor Connection



Sprinkler System Connection



Power / Sensor Signal Relay in Factory Automation



Machinery



Circuit Breaker Connector



Underground • Underfloor Wiring

