techno
TECHNOLOGY & INNOVATION

# TH391

MINI GIUNTO DI DERIVAZIONE LINEARE E A PANNELLO IP66/IP68

MADE IN ITALY



| CODICI | THx.391.Axx.x / THx.391.Axx.L.x<br>THx.391.R4A.x / THB.391.R4A.L.x<br>THx.391.xxx.x / THB.391.xxx.L.x | THB.391.A5A.x / THB.391.A5A.L.x<br>THB.391.R5A.x / THB.391.R5A.L.x<br>THB.391.x5A.x / THB.391.x5A.L.x |
|---|---|---|
| **Numero di poli** | 2 - 3 - 4 - 5 | |
| **Tipo di contatti** | Vite / Piercing<br>Con lamella salva cavo (WP) | Vite |
| **Filettatura** | M20/M25<br>*(scegli il codice adatto alla tua installazione sul sito www.techno.it)* | |
| **Corrente nominale** | 17.5A / 24A / 32A [4] | |
| **Tensione nominale** | 450V | |
| **Grado di protezione IP** | IP66/IP68<br>xDRY (versioni R4A.x.x / R5A.x.x) | |
| **Sezione conduttore rigido e flessibile min. - max.** | 0.5 mm² - 4.0 mm² (Vite) [1]<br>0.5 mm² - 2.5 mm² (WP)<br>0.5 mm² - 1.5 mm² (Piercing) [3] | 0.25 mm² - 1.5 mm² (Vite) |
| **Diametro del cavo min. - max.** | 7.0 - 12.0 / 13.5 mm [2] | |
| **Materiali connettori e guarnizioni** | PA66 GF UL94 V0 (corpo) / PA66 UL94 V2 (pressacavo)<br>TPE (gommini e guarnizioni) | |
| **T° marking** | T85° | |
| **Norma** | EN60998 (solo versioni 2 - 3 - 4 poli lineari) | |

[1] Sezioni cavo fino a 4 mm² accettati secondo parametri elettrici e tecnici indicati.
[2] Visualizza la gamma accessori sul sito www.techno.it o tramite il QR code indicato nella tabella al secondo riquadro.
[3] Per versioni con vite a perforazione di isolante (THP), la sezione del conduttore massima consigliata è 1.5 mm². Per questa versione non è necessaria la spellatura del conduttore.
[4] Visita il sito www.techno.it per identificare i parametri elettrici relativi al TH391 in uso.

## NOTE DI SICUREZZA

- Scollegare la rete elettrica prima di iniziare il montaggio.
- Per evitare che polvere e umidità/acqua compromettano il funzionamento del prodotto, è consigliabile l'utilizzo dei tappi di protezione quando i connettori non sono collegati (visita **www.techno.it** per maggiori informazioni).

**ATTENZIONE**

**Il connettore è dotato di parti sotto tensione!**
Il connettore è prodotto nel rispetto delle normative elettriche e di sicurezza.
È responsabilità di chi lo monta e lo installa rispettare i requisiti in materia di sicurezza dell'impianto e garantirsi le adeguate protezioni dalle parti sotto tensione.

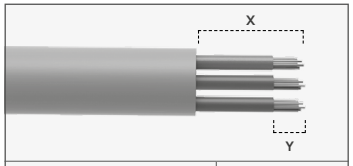
**NOTE**

**Prima del montaggio e installazione leggere con attenzione le istruzioni di montaggio!**
Il corretto funzionamento del prodotto è garantito solo se queste istruzioni di montaggio vengono lette e applicate con attenzione.

Scansiona il codice QR per maggiori informazioni.

**Techno s.r.l.**
Via Bancora e Rimoldi, 27 | 22070 Guanzate (CO), Italy | ph. +39 031 976445
customercare@techno.it | www.techno.it

## ILLUSTRAZIONI DI MONTAGGIO

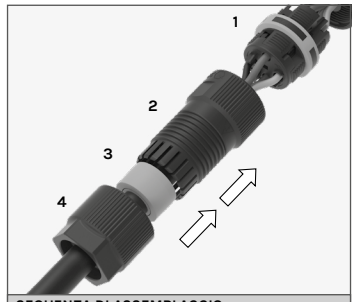



| | |
|---|---|
| **Rimozione isolante (X)** | 20 mm |
| **Rimozione isolante (X)** | 25 mm |
| **Spellatura del conduttore (Y)** | 6 mm [3] |

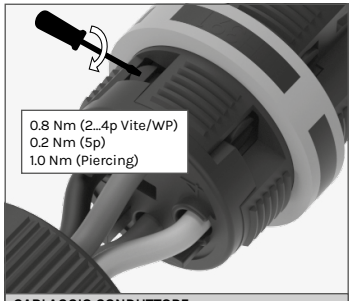
**LAVORAZIONE DEL CAVO**

| **Ø cavo min. – max.[2]** | | **Ø cavo min. – max. (.L)[2]** | |
|---|---|---|---|
| 7.0 mm - 9.2 mm | | 7.0 mm - 8.5 mm | |
| | | Cod. 6000636GT[2]: 8.0 mm - 11.0 mm | |
| 9.0 mm - 12.0 mm | | 10.8 mm - 13.5 mm | |

**INFORMAZIONI DI UTILIZZO DEL GOMMINO**

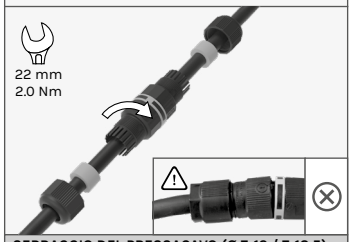



**SEQUENZA DI ASSEMBLAGGIO**

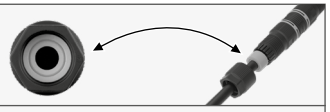



**CABLAGGIO CONDUTTORE**

Serrare il pressacavo sul connettore in senso orario con un utensile di uso comune.

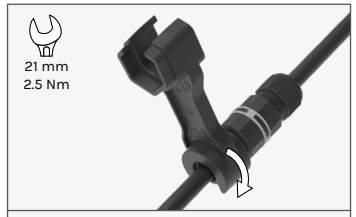



**SERRAGGIO DEL PRESSACAVO (Ø 7-12 / 7-13.5)**



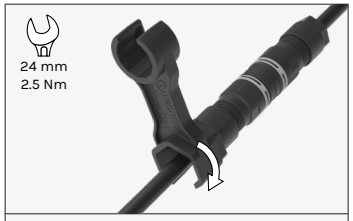
In caso di utilizzo del gommino doppio fornito in dotazione al connettore, assicurarsi che la parte con i 2 anelli visibili sia posta verso l'esterno. Se invece è necessario utilizzare solo la guaina esterna assicurarsi che sia posizionata in battuta nel pressacavo. Techno consiglia di consultare gli accessori disponibili a catalogo compatibili con il diametro del cavo in uso [2].

**RACCOMANDAZIONI**




Chiave di serraggio dadi 6000337BC.
È possibile serrare il dado con un utensile di uso comune.

**SERRAGGIO DEL DADO (PER PRESSACAVO Ø 7-12)**




Chiave di serraggio dadi 6000337BC.
È possibile serrare il dado con un utensile di uso comune.

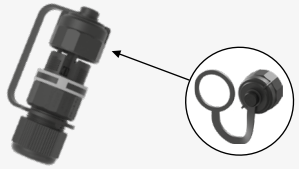
**SERRAGGIO DEL DADO (PER PRESSACAVO Ø 7-13.5)**



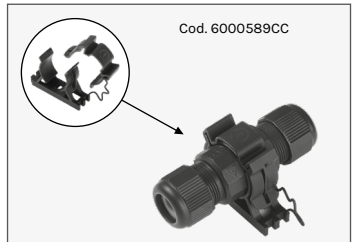
Dopo il serraggio del dado, se il gommino fuoriesce dalle griffe come indicato nella foto, è necessario utilizzare dei gommini o adattatori per cavi con Ø inferiore [2].

**RACCOMANDAZIONI**

Cod. 6DB025200 (lineare e pannello M20).
Cod. 6DB036500 (pannello M25).
Visita il sito www.techno.it per identificare codice compatibile.

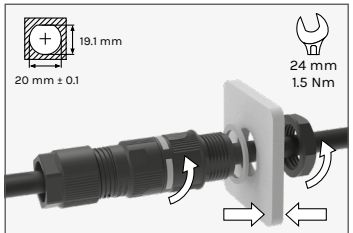


**TAPPI DI PROTEZIONE**



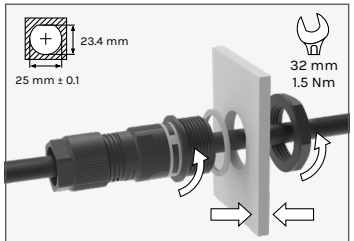

Fissaggio orizzontale a parete: **Consigliato**

**ACCESSORI PER FISSAGGIO A PANNELLO**




Spessore del pannello
1.0 mm ÷ 7.0 mm

**INSTALLAZIONE A PANNELLO M20**




Spessore del pannello
1.0 mm ÷ 7.0 mm

**INSTALLAZIONE A PANNELLO M25**

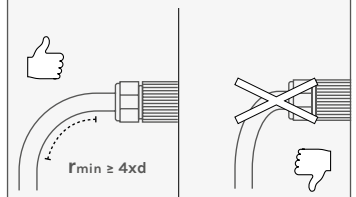
xDRY®



Versione xDRY®:
cod. THx.391.R4A.x / THB.391.R5A.x
Una speciale barriera interna anti-condensa impedisce la risalita dell'umidità all'interno del cavo per effetto della capillarità.

**PROTEZIONE ANTICONDENSA**

Prestare attenzione ai raggi di curvatura ammessa.




**RACCOMANDAZIONI**

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Contatta il nostro Servizio Clienti o visita il nostro sito web www.techno.it per conoscere gli ultimi aggiornamenti.

techno
TECHNOLOGY & INNOVATION

# TH391

MINI JOINT CONNECTOR
LINEAR AND PANEL IP66/IP68

MADE IN ITALY



| ITEMS | THx.391.Axxx.x / THx.391.Axx.L.x<br>THx.391.R4A.x / THB.391.R4A.L.x<br>THx.391.xxx.x / THB.391.xxx.L.x | THB.391.A5A.x / THB.391.A5A.L.x<br>THB.391.R5A.x / THB.391.R5A.L.x<br>THB.391.x5A.x / THB.391.x5A.L.x |
|---|---|---|
| N. Poles | 2 - 3 - 4 - 5 | |
| Terminations | Screw / Piercing<br>Screw with wire protection (WP) | Screw |
| Thread | M20/M25<br>*(choose the code suitable for your installation on the website www.techno.it)* | |
| Current rating | 17.5A / 24A / 32A (4) | |
| Voltage rating | 450V | |
| IP rating | IP66/IP68<br>xDRY (versions R4A.x.x / R5A.x.x) | |
| Conductor cross section (stranded/solid) min. - max. | 0.5 mm² - 4.0 mm² (Screw) (1)<br>0.5 mm² - 2.5 mm² (WP)<br>0.5 mm² - 1.5 mm² (Piercing) (3) | 0.25 mm² - 1.5 mm² (Screw) |
| Cable diameter min. - max. | 7.0 - 12.0 / 13.5 mm (2) | |
| Raw material of connector and sealing | PA66 GF UL94 V0 (body) / PA66 UL94 V2 (cable gland)<br>TPE (grommet and gasket) | |
| T° marking | T85° | |
| Reference regulations | EN60998 (only 2 - 3 - 4 poles linear versions) | |

(1) Cable section up to 4 mm² accepted according to indicated electrical and technical parameter.
(2) View the range of accessories to identify the right grommet to use on the website www.techno.it or via the QR code shown in the table in the second box.
(3) For versions with insulation-piercing screw (THP), the maximum recommended conductor cross-section is 1.5 mm². For this version, stripping the conductor is not necessary.
(4) Visit www.techno.it to identify the electrical parameters relating to the TH391 in use.

## SAFETY NOTES

- Disconnect the power supply before starting installation.
- To prevent dust and damp/water from impairing proper functioning of the product, it is advisable to use protective caps when the connectors are not connected (for further information visit our website **www.techno.it** ).

**WARNING**

**The connector is equipped with energized parts!**
The connector is manufactured in compliance with the electrical and safety regulations. It is the responsibility of the fitter and the installer to respect the requirements in terms of safety of the system and make sure that they take all the safety measures to protect themselves from the energized parts.

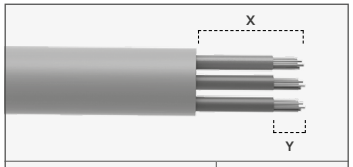
**NOTE**

**Before assembly and installation, please read the installation instructions carefully!**
The proper functioning of the product is guaranteed only if these installation instructions are read and followed carefully.

Scan the QR code for more information.

**Techno s.r.l.**
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## ASSEMBLY INSTRUCTIONS

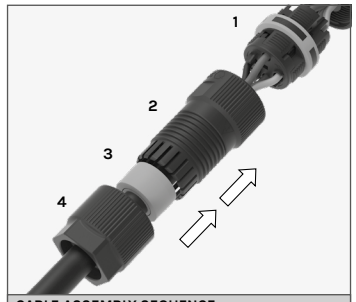



| | |
|---|---|
| Cable sheath stripping length (X) | 20 mm |
| Cable sheath stripping length (X) | 25 mm |
| Conductor stripping length (Y) | 6 mm (3) |

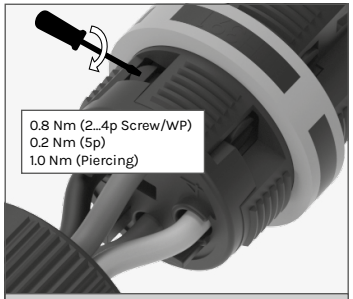
CABLE PROCESSING

| Ø cable min. – max.(2) | | Ø cable min. – max. (.L)(2) | |
|---|---|---|---|
| 7.0 mm - 9.2 mm | | 7.0 mm - 8.5 mm | |
| | | Cod. 6000636GT(2): 8.0 mm - 11.0 mm | |
| 9.0 mm - 12.0 mm | | 10.8 mm - 13.5 mm | |

GROMMET DETAILS

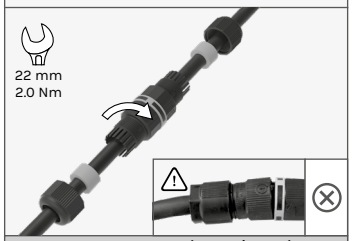



CABLE ASSEMBLY SEQUENCE

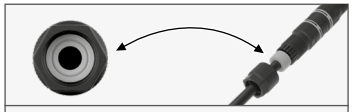



CONNECTION DATA

Tighten the cable gland onto the connector clockwise using a common tool.

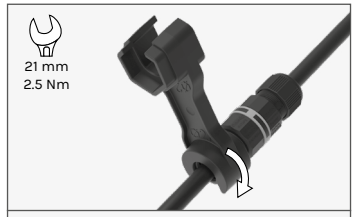



CABLE GLAND ASSEMBLY (Ø 7-12 / 7-13.5)



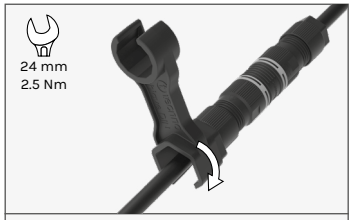
When using the double grommet supplied with the connector, make sure that the side with the two visible rings is facing outward. If you need to use only the outer sheath, make sure it is fully seated in the cable gland. Techno recommends consulting the accessories available in the catalogue compatible with the diameter of the cable in use (2).

RECOMMENDATIONS




Tightening wrench for nuts 6000337BC.
It is possible to tighten the nut using a common tool.

NUT ASSEMBLY (FOR CABLE GLAND Ø 7-12)




Tightening wrench for nuts 6000337BC.
It is possible to tighten the nut using a common tool.

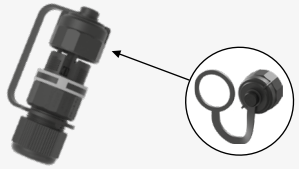
NUT ASSEMBLY (FOR CABLE GLAND Ø 7-13.5)



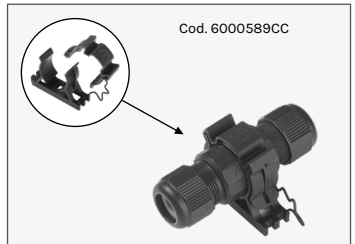
After tightening the nut, if the grommet protrudes from the clamps as shown in the photo, it is necessary to use grommets or adapters for cables with a smaller diameter (2).

RECOMMENDATIONS

Cod. 6DB025200 (linear and panel M20).
Cod. 6DB036500 (panel M25).
Visit www.techno.it to identify compatible codes.

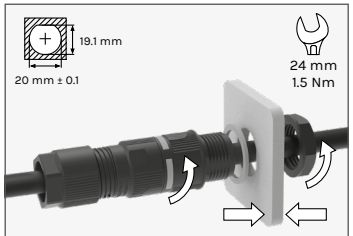


PROTECTION CAP

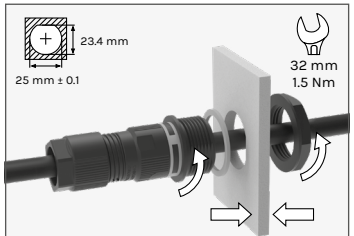



Horizontal wall mounting: **recommended**.

CONNECTOR ORIENTATION




PANEL FIXING DETAILS M20

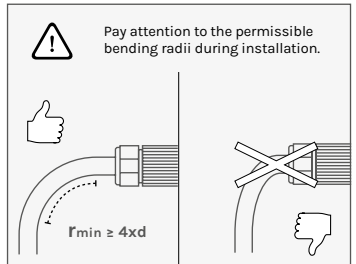



PANEL FIXING DETAILS M25




xDRY® version:
cod. THx.391.R4A.x / THB.391.R5A.x
A special internal anti-condensation barrier prevents moisture from rising inside the cable due to capillarity.

ANTICONDENSATION BARRIER




RECOMMENDATIONS

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Potential improvements of the product and modifications of the technical data contained in this document can be made without notice.
Contact our Customer Service or visit our website www.techno.it to find out about the latest updates.