

Guidelines for better installation

Specifications of Torque Forces

MADE IN ITALY

High-reliability
electrical connections
www.techno.it

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A basic rule



- The protection rating of the electrical connection **must be equal or greater** than the IP rating of the luminaire

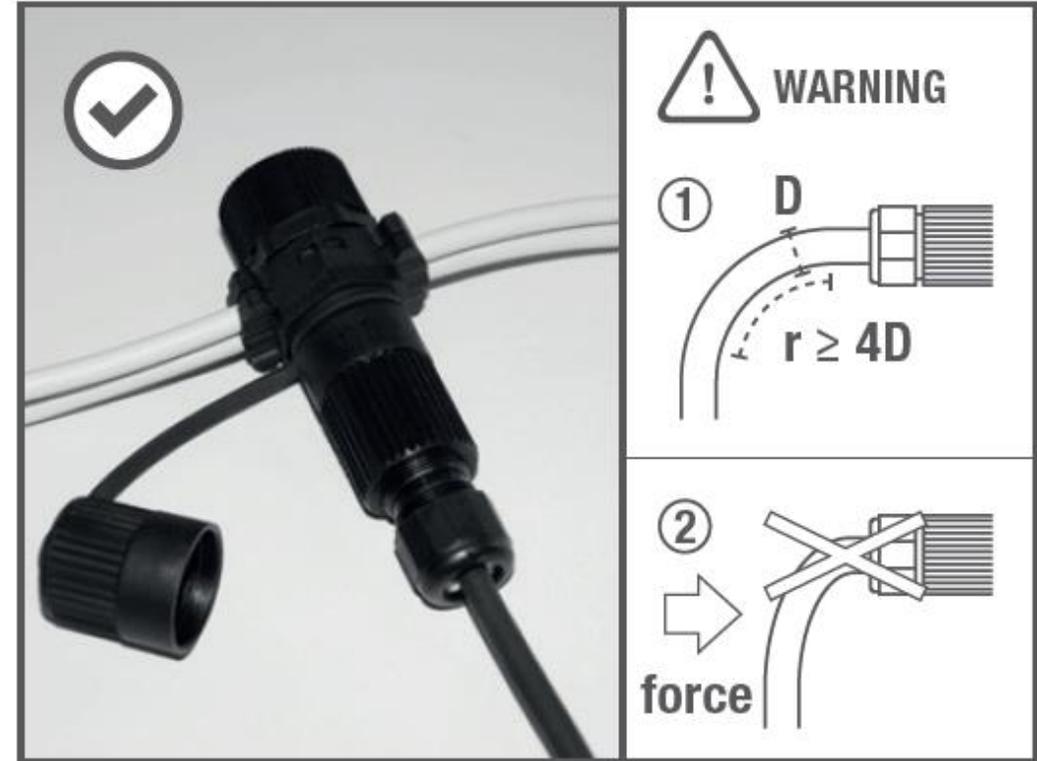


IP ≥ LAMPS

Avoid mechanical stresses

- The generally accepted guidelines for laying cables must be observed
- Mechanical bending in the area of the strain relief must be controlled using suitable measures (e.g.cable clamps)
- If abrasion might occur (construction site lighting systems, event equipment, or similar temporary applications), wear of the pre-assembled cable and plug connections must be taken into consideration and must be monitored

example



Installation position and additional protections

- Choose a horizontal position to guarantee water drainage
- If this is not possible, an additional cover should be used for protection
- The cable arrangement is just as important. The cable must be laid in such a way that any draining water is not routed to the cable gland, but drops off beforehand



Torque and locking according to specs.

- The cable glands must be tightened to the specified torque
- All connections must be locked
- Unlocking must be done manually or using a suitable screwdriver in accordance with the assembly instructions
- "Over-tightening" soon leads to wear and ineffective connections



How to use the quick-fix spanner



Nut

to be used for

Top

Bottom

Series: TH391, TH392, TH387
(longer cable gland)

TH405, TH209, TEEGLAND®

Other products (TH405, TH400,
TH402, TH399, TH390,
TEEGLAND®)



Bottom

to be used for

Nut



Series: TH391, TH392, TH387
(shorter cable gland)

TH405, TH209, TEEGLAND®

How to use the quick-fix spanner (cont.)



1. Turn the nut (A) of the connector clockwise using the quick-fix spanner
2. Continue to turn it up to the nut will not turn more. You will hear a noise due to friction of the key on the nut 
3. At this point you have the nut tighten with a torque force of $2.0 \text{ Nm} \div 2.5 \text{ Nm}$
4. Important: the cable gland (B) will be tightened automatically when turning the nut (A)
5. Cable retention and IP68 resistance are guaranteed (acc. to EN61984 and EN60998/EN60529)

