

High-performance electrical connections

Protection from dust, water and high-temperature pressurised water



Choose innovation and reliability **Reduce** installation and maintenance costs **Extend** the possibilities of use



www.techno.it





Total protection

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



Long Term Reliability Resin and gel-free

Re-usable and Re-accessible even after long operating periods





QUICK INSTALLATION

Fewer parts to assemble



HIGHER RESISTANCE

to external stresses, chemical-mechanical adherence between plastic and rubber



ANTI-LEAKAGE CO-INJECTED GASKETS





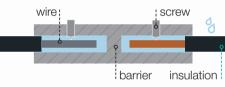
FEWER INSTALLATION MISTAKES

Anti-leakage gaskets

XDRY® EXTRA DRY No more condensation: Reduced repairs and maintenance costs

Under particular environmental conditions, the accumulation of moisture inside the cable can cause the malfunctioning of electrical devices. The ventilation of the device is not often possible, especially when there is water, debris or installed in very small spaces. In this case the electrical connection is fundamental to ensure the reliability of the system.

NO DIRECT CONTACT AMONG THE CONDUCTORS



Anti-condensation barrier





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 READY

for immediate in-field use

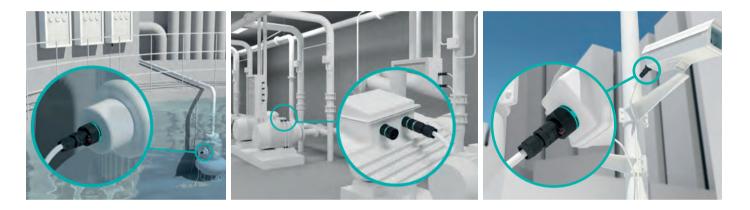
ELECTRICALLY ISOLATED

Absence of electrical leakage

EXTRA PLUGGABLE Plug and Socket solutions: Reduced cost of product installation



PLUG & PLAY RAPID CONNECTIONS



MODULARINTERCONNECTIONSYSTEM to guarantee high flexibility **EASILY & QUICKLY CONFIGURABLE** to support ever more advanced plants **POWER DISTRIBUTION BOXES** to support electrical networks and devices

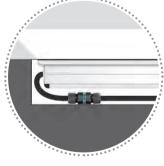


We know the needs of our customers

WHEN DIMENSIONS MAKE THE DIFFERENCE

Connectors of circular section allow a greater number of poles in less space compared to traditional solutions of linear terminal blocks.





COMPACT SIZE

Ideal for connections in small spaces

CAN BE EMBEDDED

within machinery, equipment and installation systems the smallest IP68 joint without gel and resin



Ø 23 mm



SCALE 1:1



the smallest plug and socket connector 2-poles with screw wiring



Ø14 mm



Pre-wired junction connectors

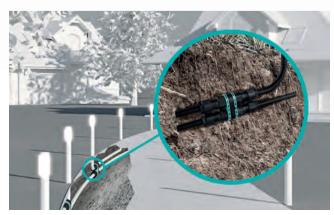
for rapid installation



AVOID UNSHEATHING THE CABLE!

п

Piercing screw terminal blocks for stranded wires up to 1.5 mm² (on request).



EASY TO USE

Few components to assemble

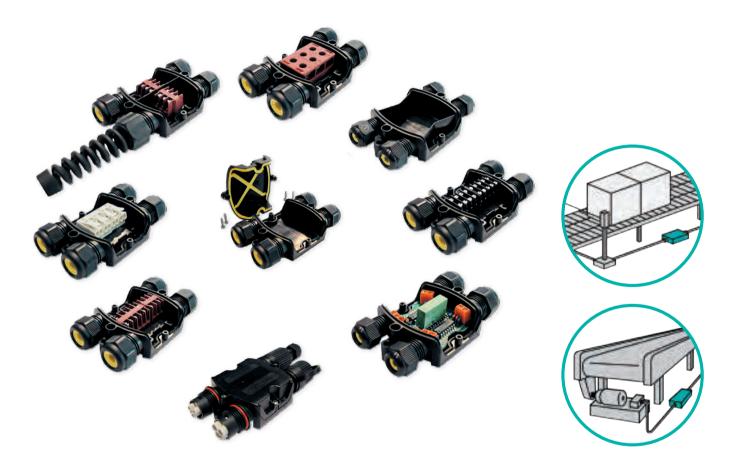
QUICK TO INSTALL

Intuitive assembly and wiring in just a few steps









MAXIMUM PROTECTION

Of circuits and electronic devices

PRACTICAL

Re-usable and Re-accessible (IP68)

CUSTOMIZED

Customer-specific solutions





Quality installations of equipment or systems in critical conditions of use (rain, floods, tides, snow, ice, sand, industrial washes, chemicals, dirty environments with oils/grease and hydrocarbons).





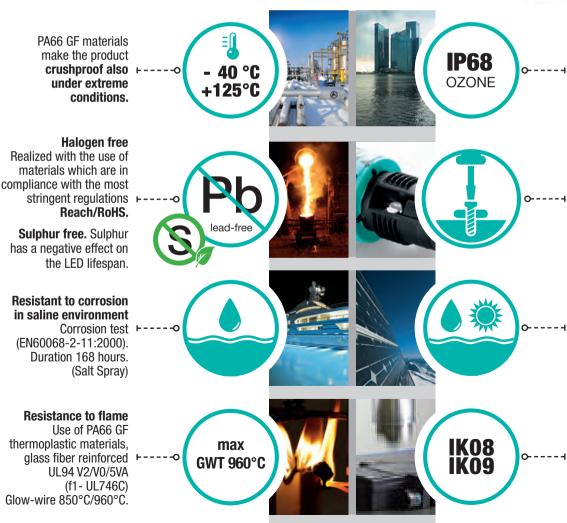
Resistance to external agents (EN60529). In addition: ageing test in air with ozone concentrations (ISO 1431-1).

Electrical contacts and screws treated with special coatings to guarantee high resistance to oxidation. Versions with silver contacts for maximum electrical conductivity in very low voltage applications.

UV resistance testing

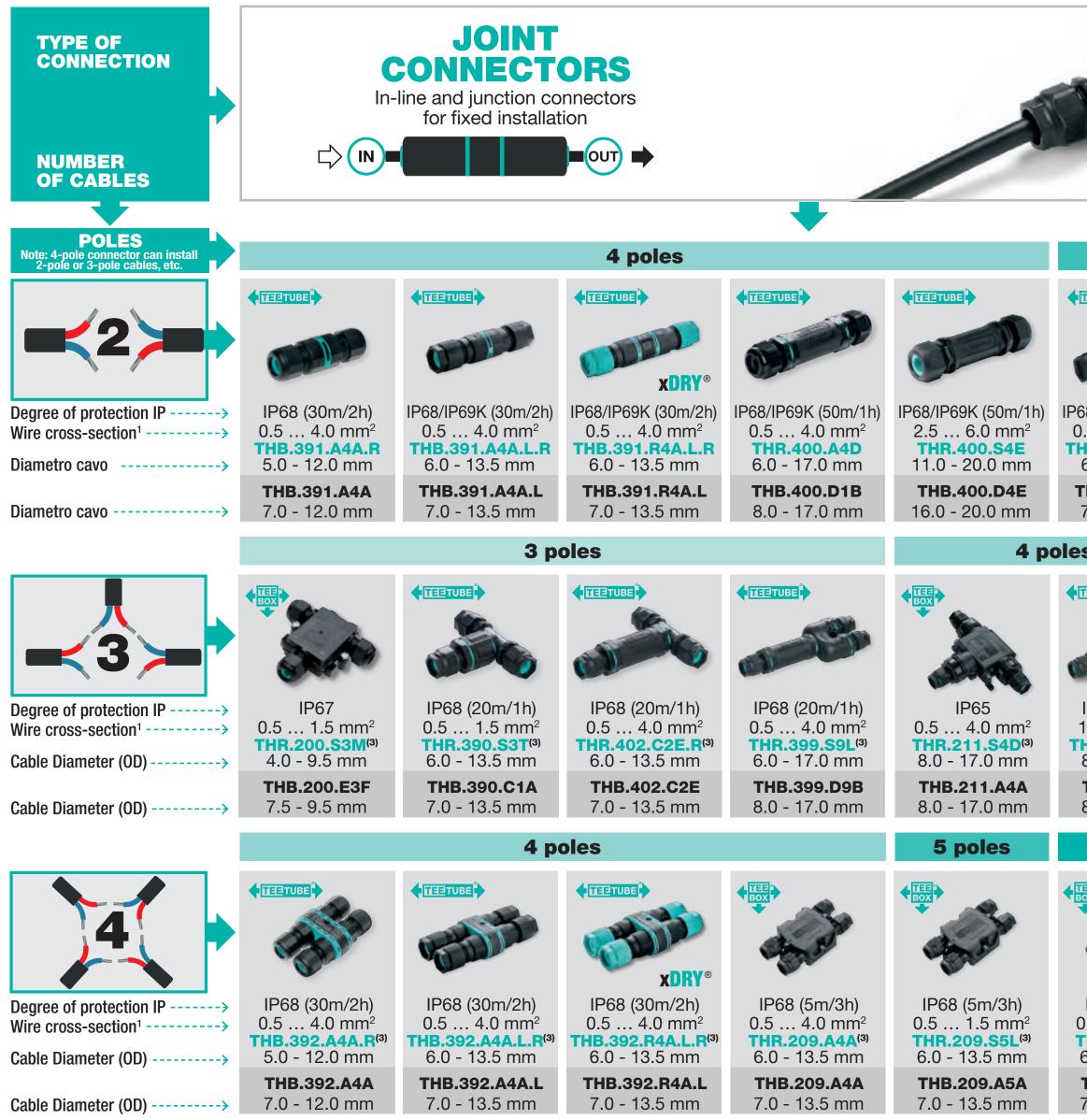
according to EN60079-0. Method of exposure to laboratory light sources to verify UV weathering resistance. Duration 1000 hours.

Impact resistance (EN62262:2002). IK08/IK09 and IP68 Tests show positive results even after conditioning in hydrochloric acid (HCI) for 168 hours at 70°C. (pH 4,5 and pH 3,5). IK10 products possible upon customer request.



QUICK-REFERENCE GUIDE High performance electrical connections (IP66/IP68/IP69K)

Joints and pluggable connectors: Quality, Rapid and Reliable products for plant and machinery.



INFO

Look at the general catalogue or visit www.techno.it for more technical information, complete range of codes, dimensions of the products and packaging information.

LEGEND

- (1) Versions with screw wiring. For crimp, piercing or spring terminals products,
- consult the general catalogue or visit ww.techno.it (2) Plug and socket connectors are included in the package (kit).
- Closing cap is included in the package (kit).
- (4) Plug and socket connectors are not included in the package. To be ordered separately (see TH381 for TH625, TH387 for TH624).



Code A THB.391.A4A.R KIT PACK KIT includes a product unit, wiring and fixing accessories and an instruction sheet.



Code B THB.391.A4A BULK PACK Minimum order quantity: i.e. 50 ... 200 pieces depending on the codes.



INSTALLATION KEY Special installation tool for fast and safe assembly (included in the packaging).

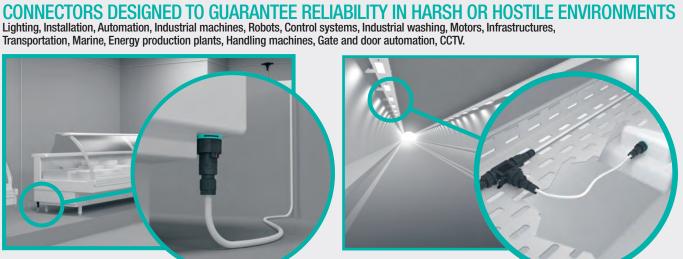
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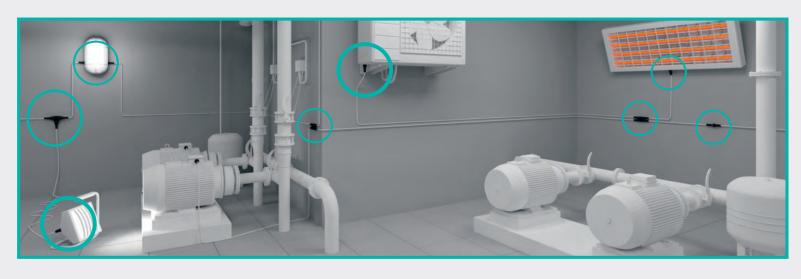
		 Plug and socket connectors for quick installation Image: A contract of the socket connectors for quick installation 				
5 poles		2 poles	3 poles	4 poles	5 poles	
268/IP69K (30m/2h)	IP68/IP69K (50m/1h)	IP68/IP69K (30m/1h)	IP66/IP68 (50m/24h)	ГЕЕ РЦИС IP66/IP68 (30m/3h)	IP66/IP68 (30m/3h)	FUG IP68 (10m/1h)
0.25 1.5 mm ² HB.391.A5A.L.R 6.0 - 13.5 mm THB.391.A5A.L 7.0 - 13.5 mm	0.5 4.0 mm ² THR.400.S5D 6.0 - 17.0 mm THB.400.D1A 8.0 - 17.0 mm	0.25 1.0 mm ² THB.381.A2A.R ⁽²⁾ 4.0 - 8.0 mm THB.381.A2A THB.381.A2A THB.381.B2A 5.8 - 6.9 mm	0.5 4.0 mm ² THR.384.S3A ⁽²⁾ 5.0 - 12.0 mm THB.384.A1A THB.384.B1A 7.0 - 12.0 mm	0.5 4.0 mm ² THB.387.A4A.L.R⁽²⁾ 6.0 - 13.5 mm THB.387.A4A.L THB.387.B4A.L 7.0 - 13.5 mm	0.25 1.5 mm ² THB.387.A5A.L.R⁽²⁾ 6.0 - 13.5 mm THB.387.A5A.L THB.387.B5A.L 7.0 - 13.5 mm	0.5 4.0 mm ² THR.405.S5A ⁽²⁾ 6.0 - 13.5 mm THB.405.A2A THB.405.B2A 7.0 - 13.5 mm
es	5 poles		3 poles		5 poles	
IP68 (20m/1h) 1.5 4.0 mm ² IHR.399.A4F.R ⁽³⁾ 8.0 - 17.0 mm THB.399.D4E 8.0 - 17.0 mm	IP68 (20m/1h) 0.5 1.5 mm ² THR.399.S5L ⁽³⁾ 6.0 - 17.0 mm THB.399.D5A 8.0 - 17.0 mm		IP65 0.5 4.0 mm ² THR.631.S3A ⁽²⁾⁽³⁾ 6.0 - 13.5 mm THH.631.B3A ⁽²⁾ 7.0 - 13.5 mm		IP65 0.5 4.0 mm ² THR.631.S5A ⁽²⁾⁽³⁾ 6.0 - 13.5 mm THH.631.B5A ⁽²⁾ 7.0 - 13.5 mm	
8 poles	empty box to be used with resin	2 poles	3 poles	4 poles	5 poles	
IP68 (5m/3h) 0.5 1.5 mm ²	IP68 (5m/3h)	IP68 0.25 1.0 mm ²	IP66/IP68 (5m/3h) 0.5 4.0 mm ²	IP68 0.5 4.0 mm ²	IP68 0.25 1.5 mm ²	
THR.209.S8L ⁽³⁾ 6.0 - 13.5 mm	THR.219.A0A ⁽³⁾ 6.0 - 13.5 mm	THH.625.A2A.L.R ⁽²⁾⁽³⁾ 4.0 - 8.0 mm	THR.623.S3A ⁽²⁾⁽³⁾ 5.0 - 12.0 mm	THH.624.A4A.L.R ⁽²⁾⁽³⁾ 6.0 - 13.5 mm	THH.624.A5A.L.R ⁽²⁾⁽³⁾ 6.0 - 13.5 mm	
THB.209.A8A 7.0 - 13.5 mm	THA.219.A1A 7.0 - 13.5 mm	THH.625.A2A ⁽⁴⁾ See TH381 2 poles	THH.623.L3A ⁽²⁾ 7.0 - 12.0 mm	THH.624.A4A ⁽⁴⁾ See TH387 4 poles	THH.624.A5A ⁽⁴⁾ See TH387 5 poles	

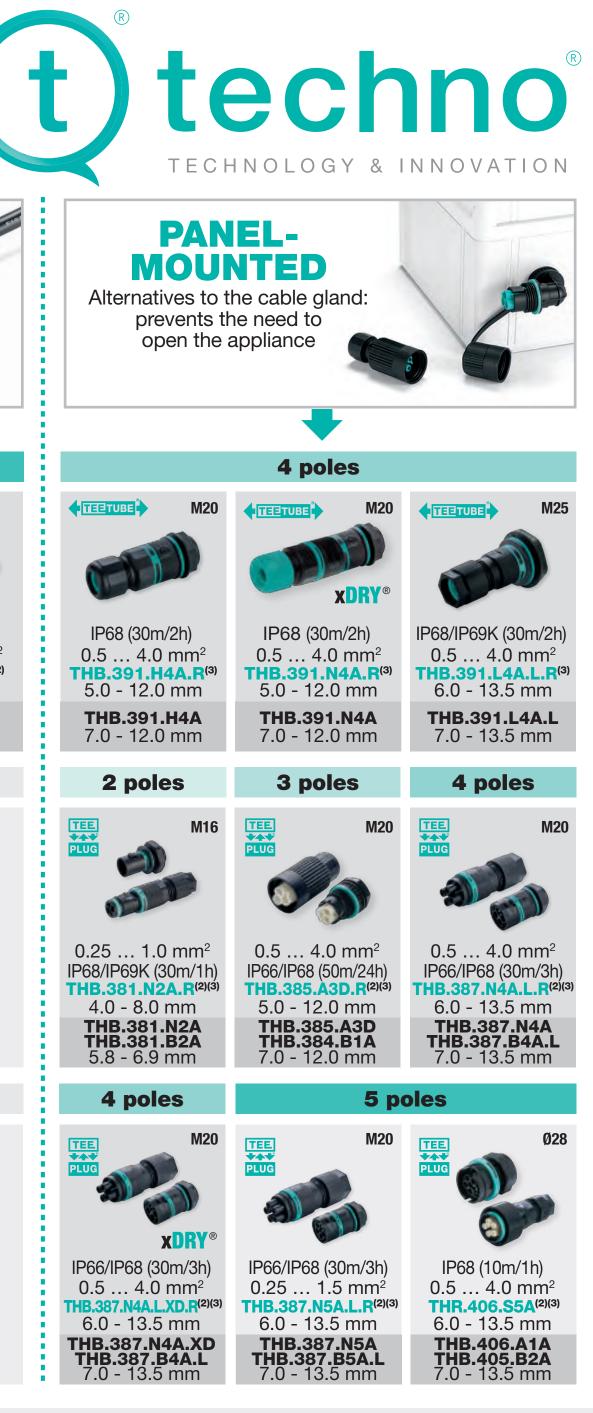


ACCESSORIES Cable reducers, closure caps, fixing systems etc. (included only in the KIT PACK).









Design, Manufacturing and Control in Italy. All that you can expect from Techno

SERVICE AND REACTIVITY -0

We offer kindness and expertise, and we are always here to help and listen our customers. We provide advanced logistics that guarantees delivery times also within 24 hours

FLEXIBILITY -0

R&D and manufacturing of tools and products are totally carried out inhouse. We are able to meet deadlines and guarantee the guality and flexibility needed during the development and production phases.

100% OUALITY -0

We perform stress tests on our products according to parameters which are higher than the ones requested by the norms. Our services include electrical, thermal and mechanical tests, dimensional testing, test on plastic materials and rubber, IP6x testing, UV and weathering tests carried out in a climatic room.

COMPETENCE -0

We design our products upon our customers request, putting our deep knowledge of development and production technologies as well as of electrical and mechanical regulations at their disposal, and meeting the expectations of the requested solutions in terms of quality. reliability and cost effectiveness.

















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