



**When reliable electrical
connections are required**



Well-established industrial company

Founded in **1986** – Guanzate (Como), **Italy**

100% Family Business

Annual investment in R&D: **10-12% of total turnover**

Export: **50% of total turnover** (Europe, Middle East, Asia, Australia)



From custom-products to product specialist

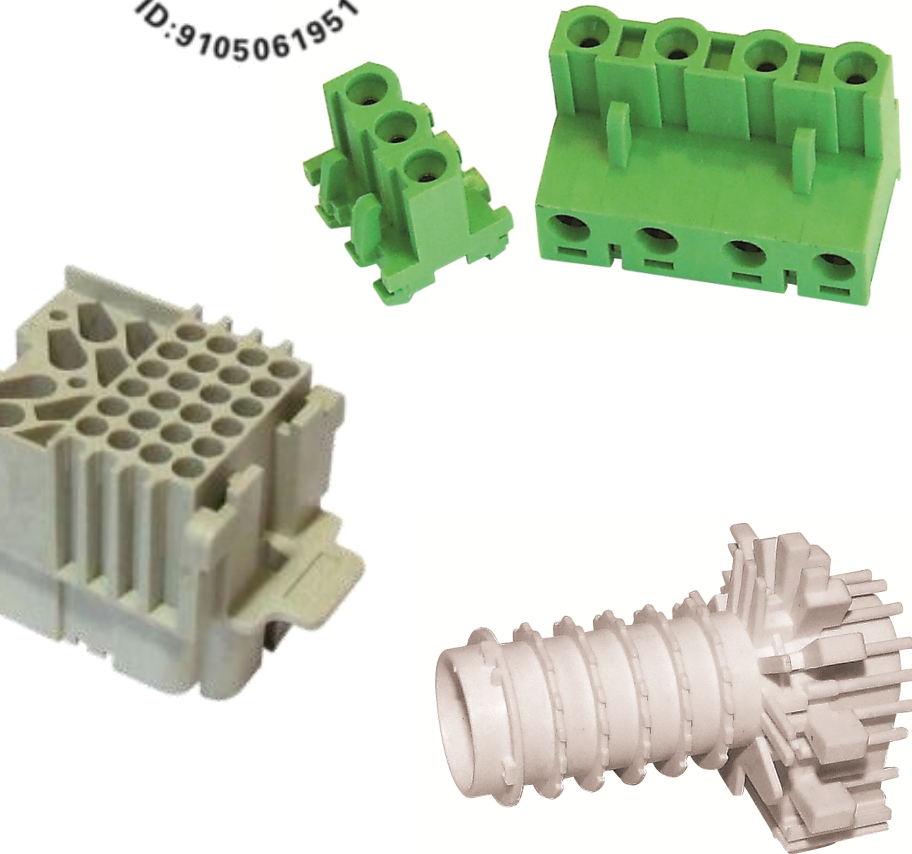
1986 – 2000

Partnership with ElettroGibi Group (ITW) serving the white-goods business (Electrolux, Merloni, Zanussi, Candy, etc.)

First Italian company to obtain the ISO 9001

(in the injection moulding industry)

Know-how in electrical connectors solutions



1986

2001



specialization in
CO-MOULDING
technology

Continuous research for innovative solutions

2011

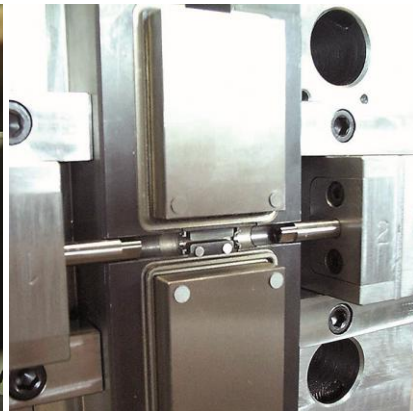
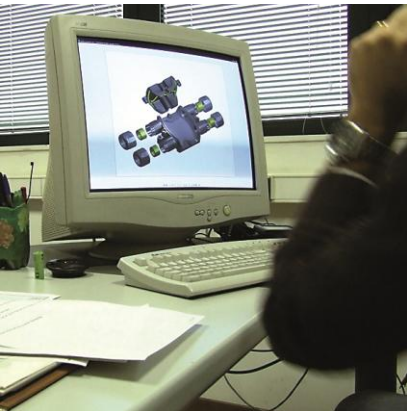
today



2000-today

Highly specialized company for
water-tight connectors

Extensive experience in custom-
made products



TEEfamily® Connectors



High performance and innovative solutions for electrical connections

- **FAST**
- **SAFE**
- **USEFUL**



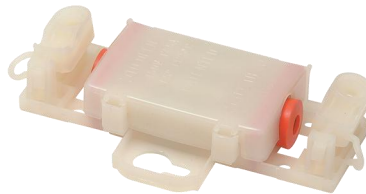
TEEfamily® Connectors



IP20



IP44



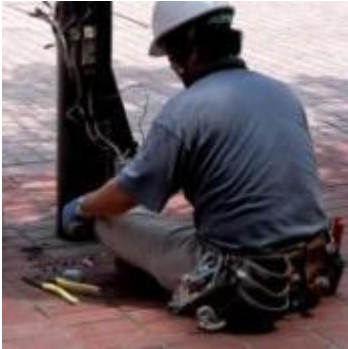
IP65

....

IP68



Application Overview



**Low-Voltage
Installation**



Lighting



**Industrial
Applications**



Heating/Cooling

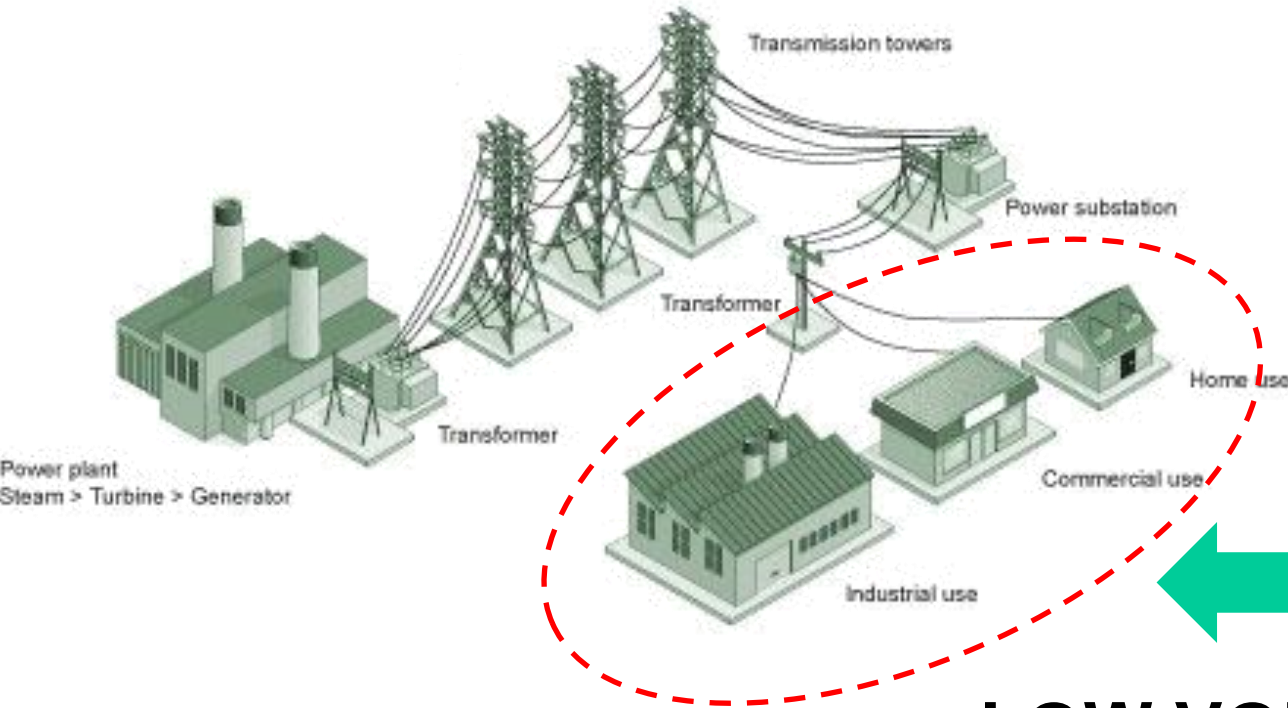


Marine



Transportation

Techno major Industries



Max. 450V
Max. 32A
Max. 4mm²(6mm²)
Max. 17 mm (cable)

LOW VOLTAGE (LV)



Product Range Overview



1. FIXED CONNECTION (junction connection)



2. PLUG & SOCKET CONNECTION



3. CABLE FIXING





TEETUBE®

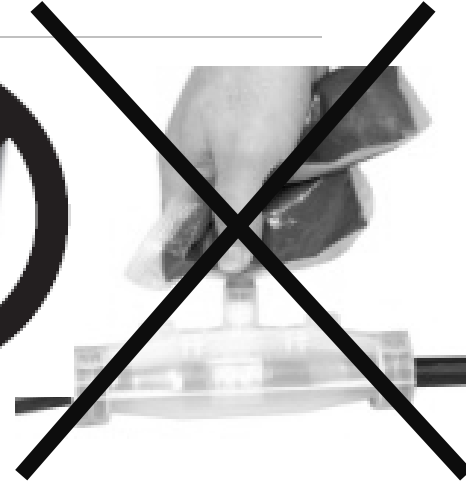
Joint circular
connectors





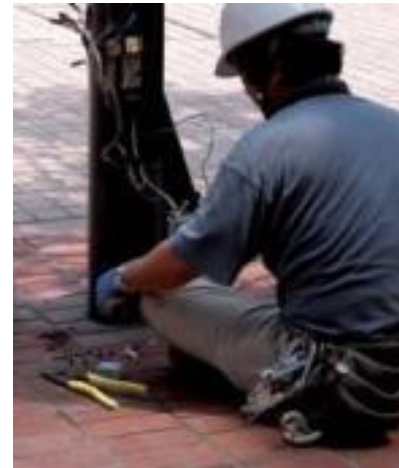
IP68

TH399



IP68 certified for use without resin and gel

- Can be used underground
- Fast and reliable wiring
- Use of non-toxic material (REACH, RoHS)
- Compact size
- Connections can be re-inspected
- One purchase code



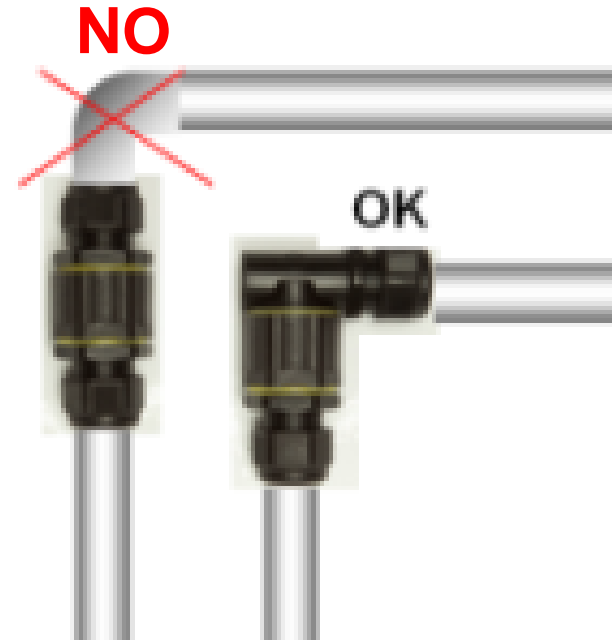


Joint circular connectors

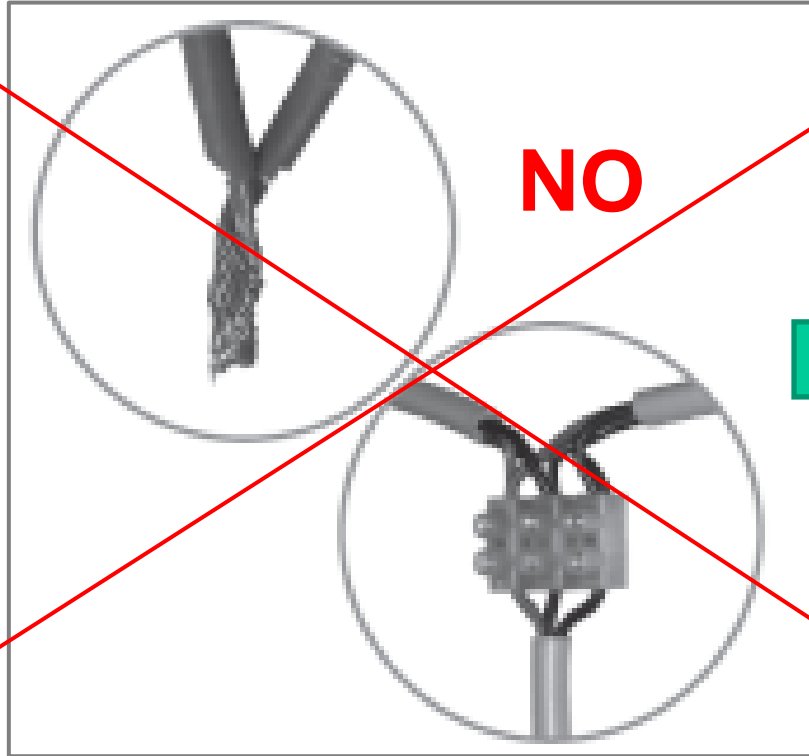
TYPE I
2 USCITE
2 WAYS



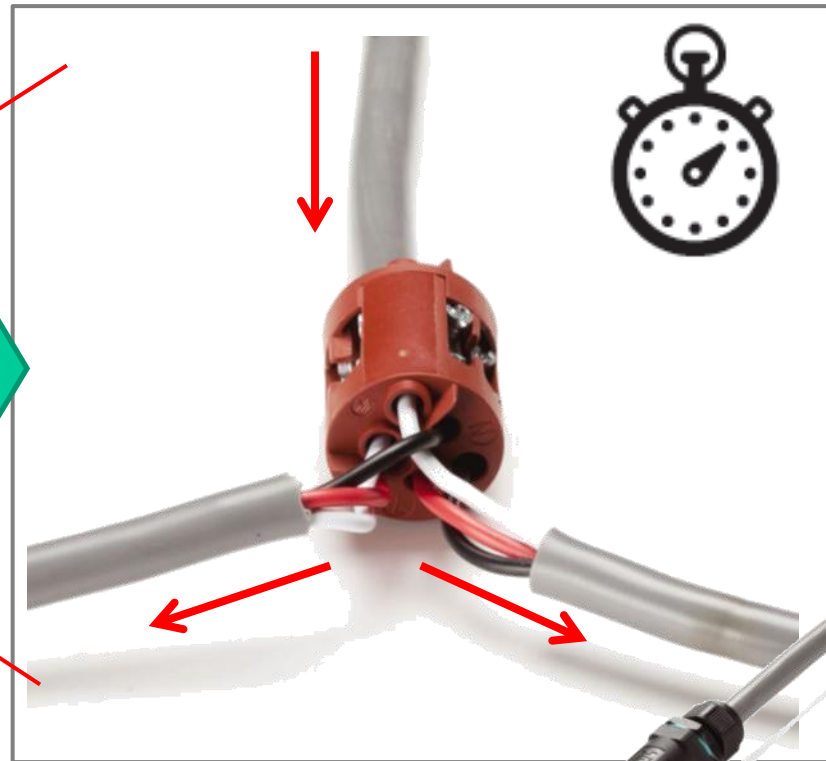
Joint circular connectors



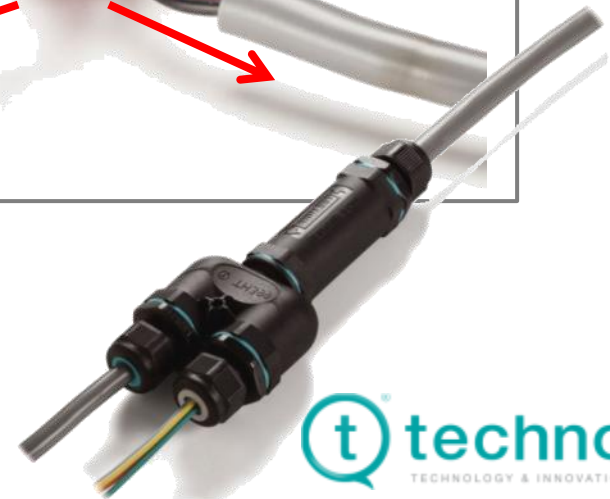
YESTERDAY



TODAY



QUICK AND EASY WIRING
Prevents twisting of the strands



TH391



Ø 23 mm



68 mm

TH392



out



IN



out





TEEBOX®



IP68

Junction boxes and Distribution Units



IP68

TEEBOX® Joint boxes and distribution units



○
TH623

○
TH209

○
TH200





Junction boxes and Distribution Units

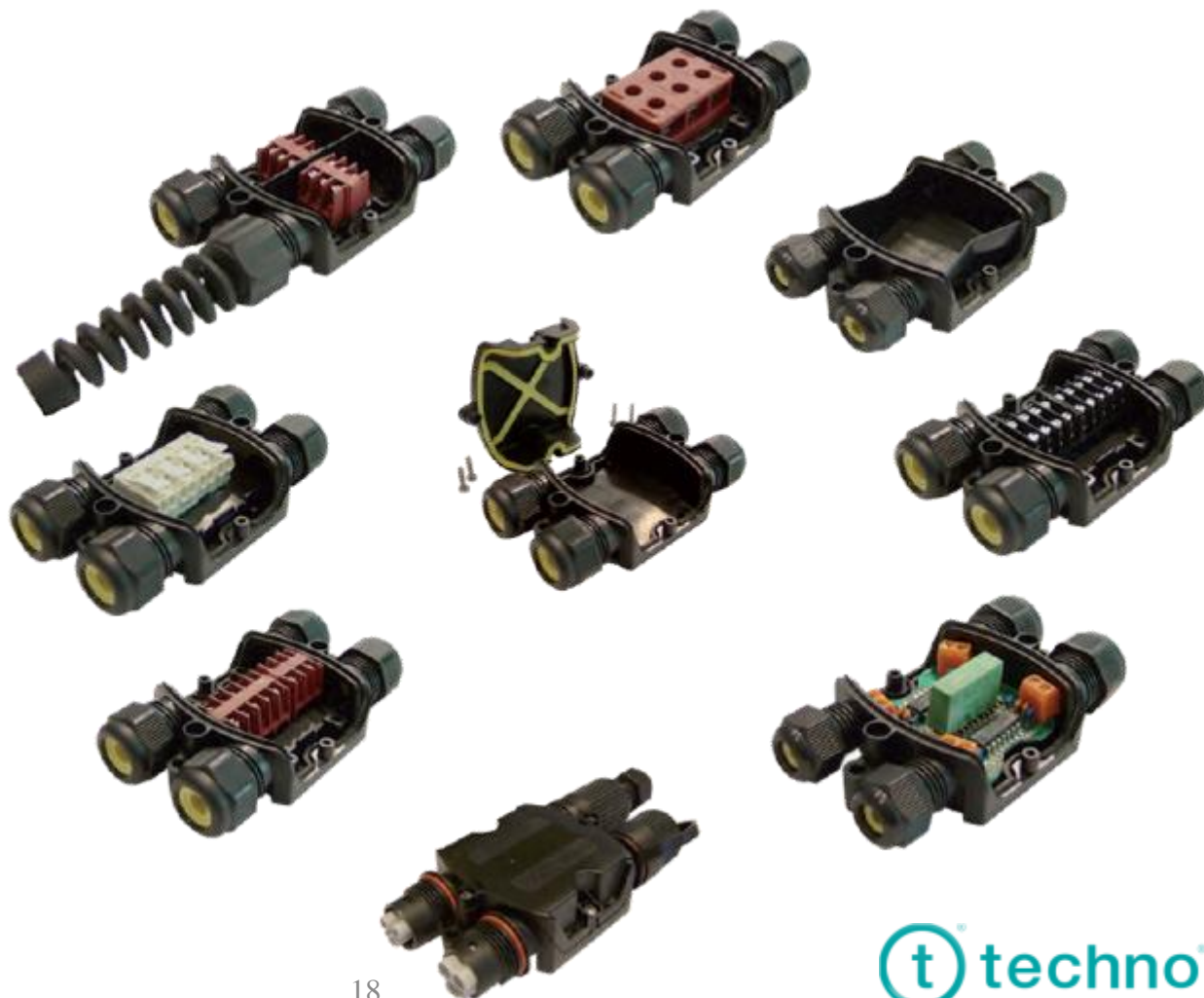
VERSATILE SOLUTIONS



Morsettiera a molla
Terminal block with spring



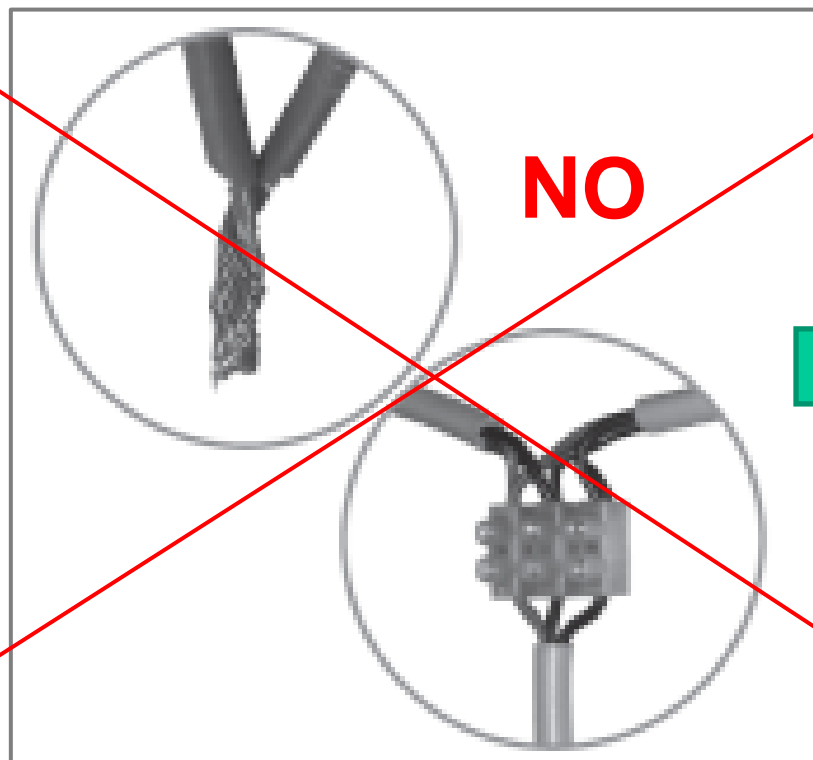
Scheda elettronica
Electronic circuit board



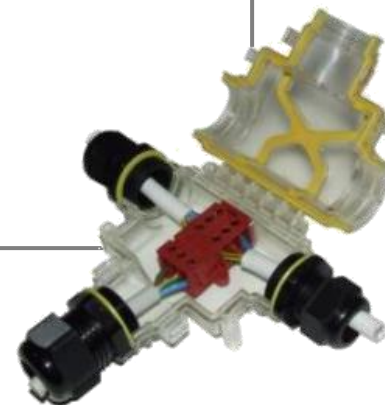
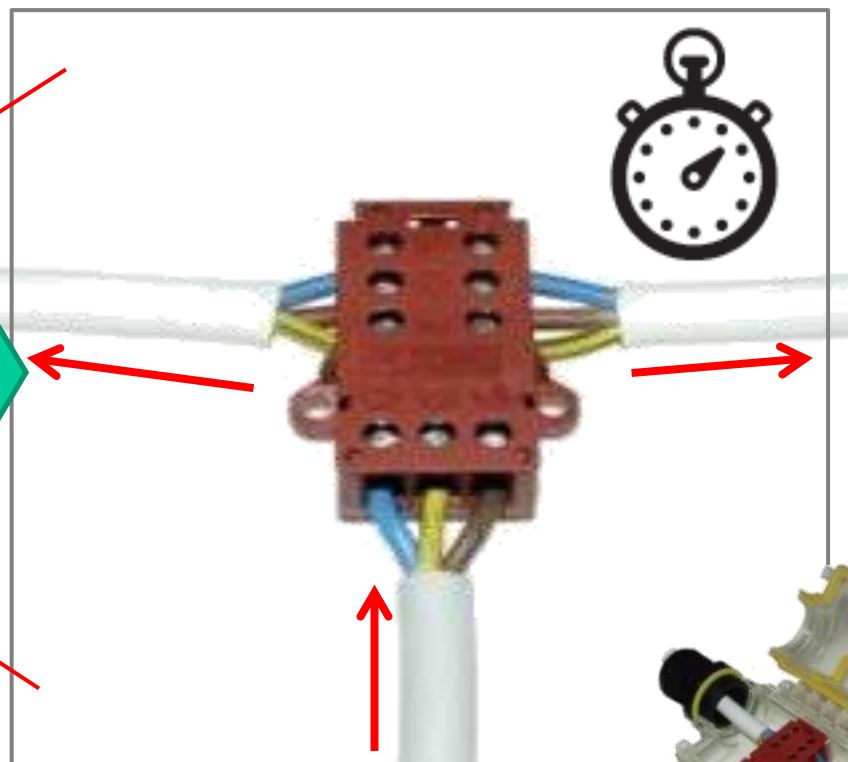


Junction boxes and Distribution Units

YESTERDAY









TODAY



QUICK AND EASY WIRING
Prevents twisting of the strands

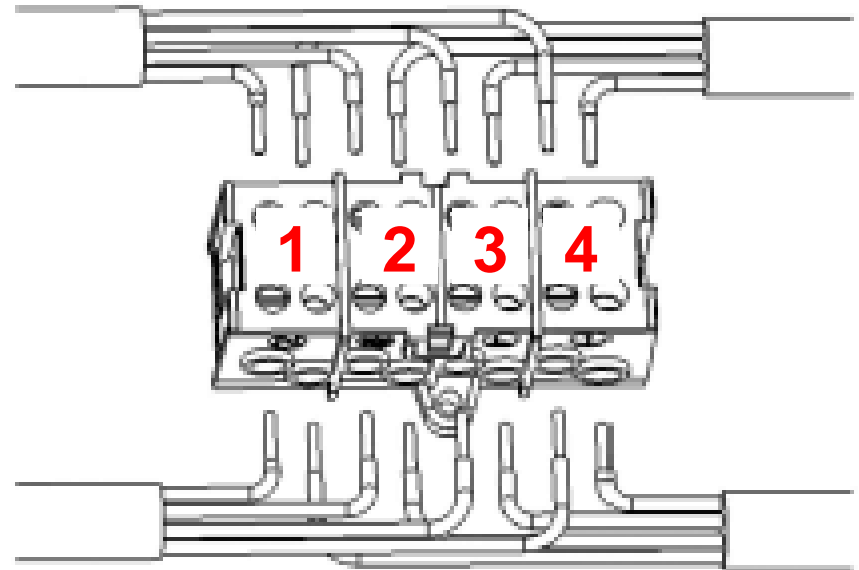
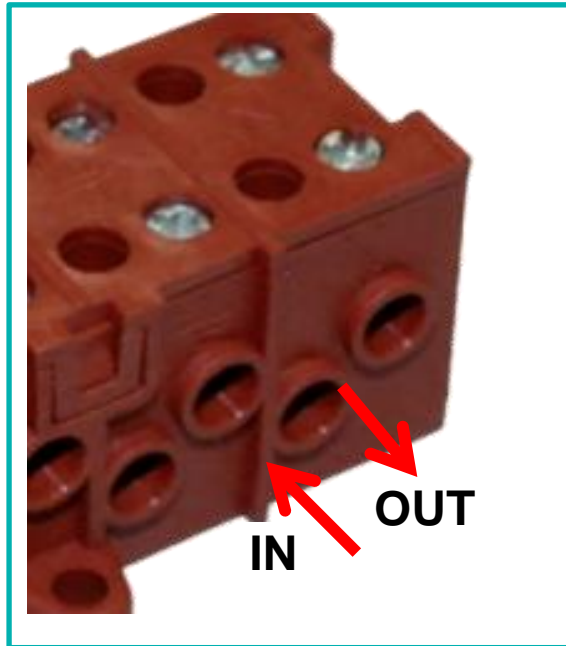


Compact Circular/Linear Terminal Block

	POLES		Amp / Volt	
	new 2 - 3 ⁽¹⁾	IP55	17.5A 450V	TH112
	2 - 3 - 5	IP20	32A 450V	TH021
	2 - 3 - 5	installabili in <i>can install inside</i> TEEBOX®	32A 450V	TH026
	2 - 3	installabili in <i>can install inside</i> TEEBOX®	41A 450V	TH027
	2+2 - 3+3	installabili in <i>can install inside</i> TEEBOX®	32A 450V	TH029
	new 4+4	installabili in <i>can install inside</i> TEEBOX®	32A 450V	TH032



Compact Circular/Linear Terminal Block



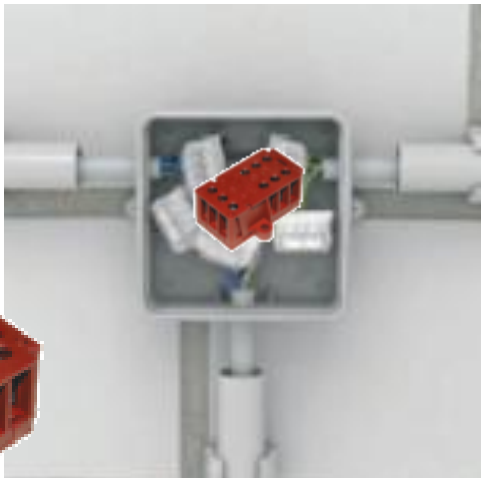
INSERT AND SCREW





Compact Circular/ Linear Terminal Block

Residential/Industrial Applications



Compact Circular/Linear Terminal Block



Terminals range



**Blind terminals
(standard)**

max. 4 mm²
min. 1,5 mm²



WP terminals

max. 2,5 mm²
min. 0,25 mm²

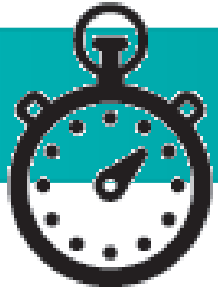


Piercing terminals

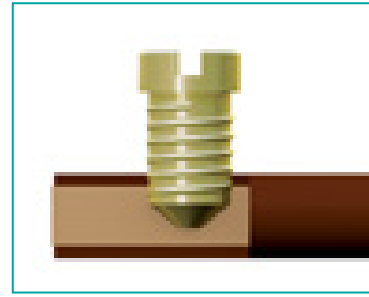
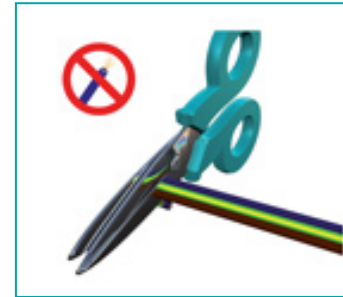
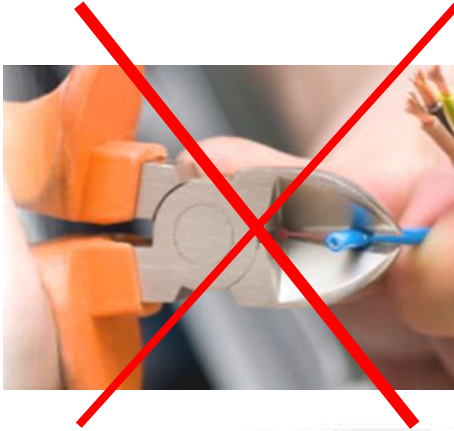
max. 1,5 mm²
min. 0,5 mm²



Crimps



QUICK AND INTUITIVE





Junction boxes and Distribution Units

MODULAR SYSTEM



IP20



IP40



IP54

IP66

IP68





TEEPLUG®

Plug and Socket Connectors



IP68

IN-LINE CONNECTOR



PANEL-MOUNT





TEEGLAND®



IP68

Innovative cable glands



Innovative cable glands



1

RAPID INSTALLATION



2



8 sec.



Innovative cable glands



AVOID INSTALLATION ERRORS

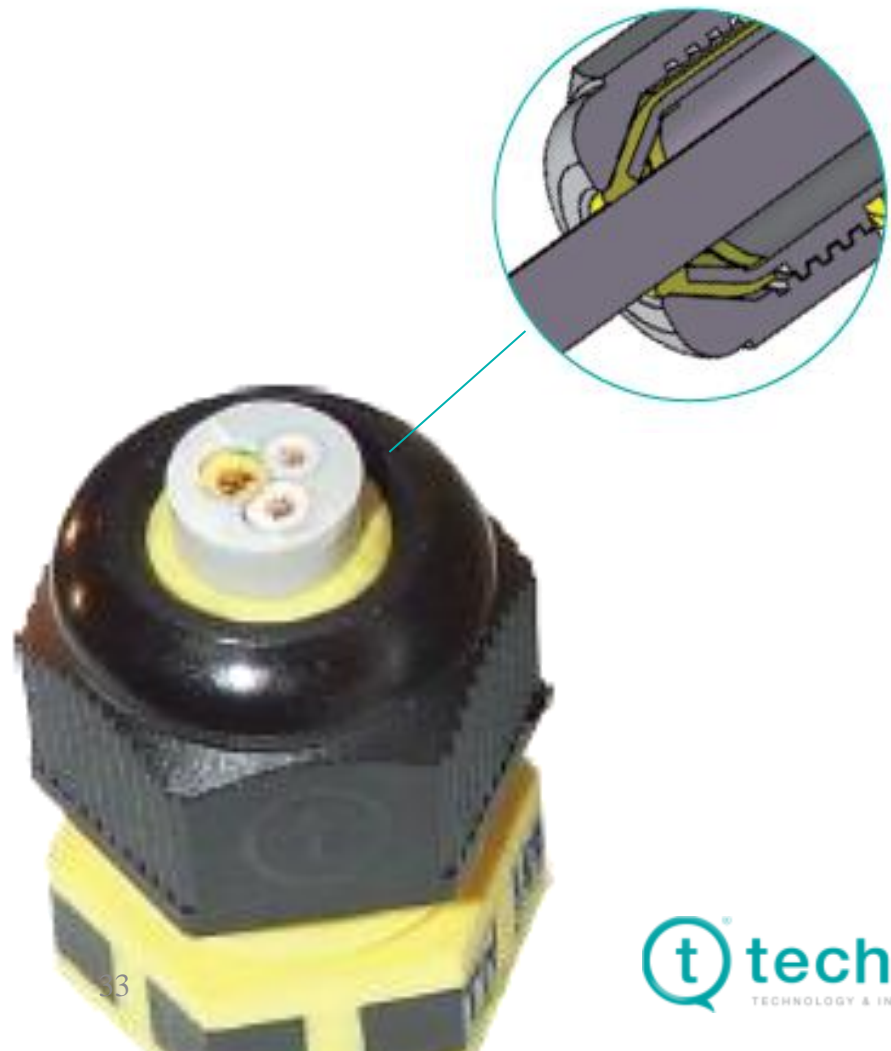
The seal will not detach accidentally during installation

RESISTANCE TO HIGH CLOSING FORCES

The rubber is also co-moulded near the thread avoiding the need for additional seals on the gland thread.



Innovative cable glands





Innovative cable glands

-40°C

+125°C



IP68 50m





Innovative cable glands



**Can install cable
protection systems,
braided hoses and
spiral top**



Innovative cable glands

Industrial Applications

→ HIGH RELIABILITY IN INDUSTRIAL MACHINES



OUTDOOR LIGHTING



Alternative to products with resin/gel.
TEETUBE® provides underground
protected connection (up to IP68)



Target Projects – LOW-VOLTAGE INSTALLATION



Residential
Buildings



Commercial
Buildings



Public
Lighting



Stadiums



Tunnels
(Motorways – Underground)



Airports

Target Projects – LOW-VOLTAGE INSTALLATION



Ports



Bridges



Architectural
lighting



Plants



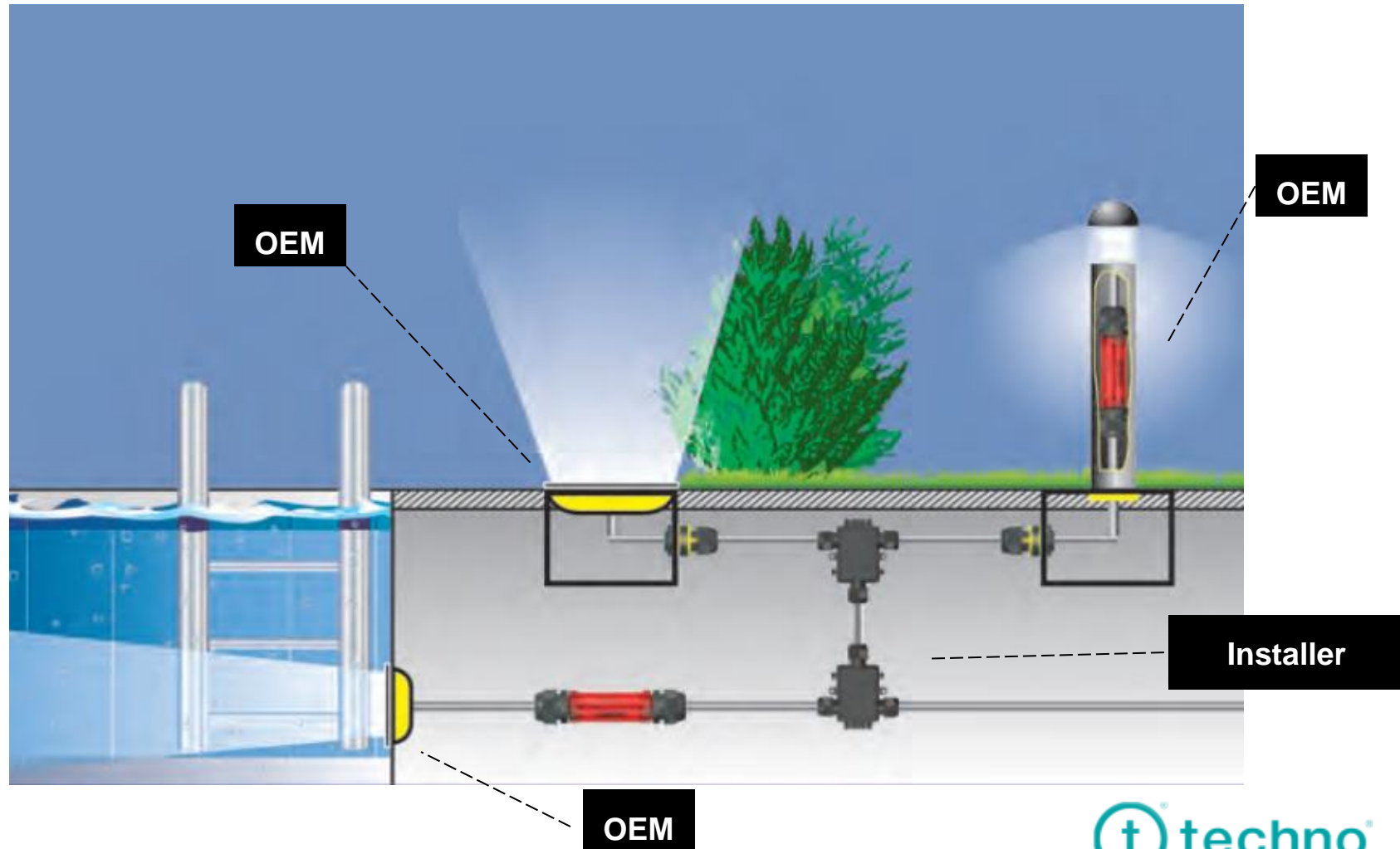
Petrol Stations



Events lighting

Low-voltage outdoor installation

A complete system for installers and O.E.M.





TH391 – mini-joint connector



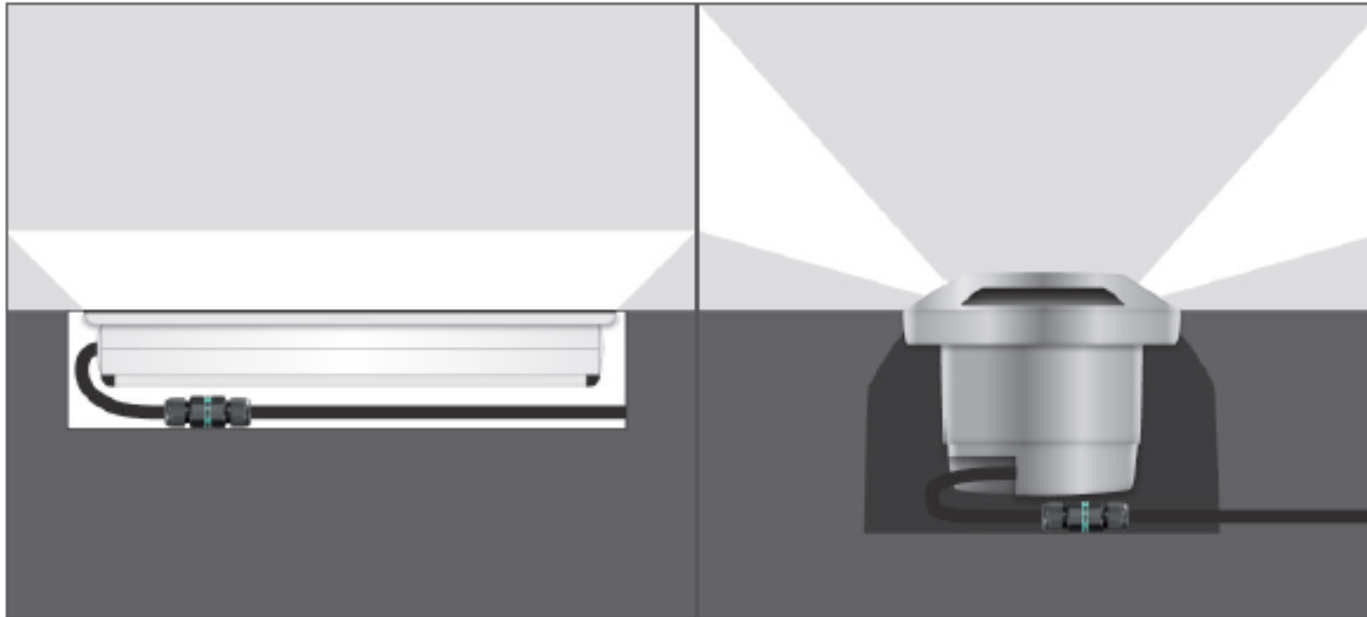
Ø 23 mm



68 mm

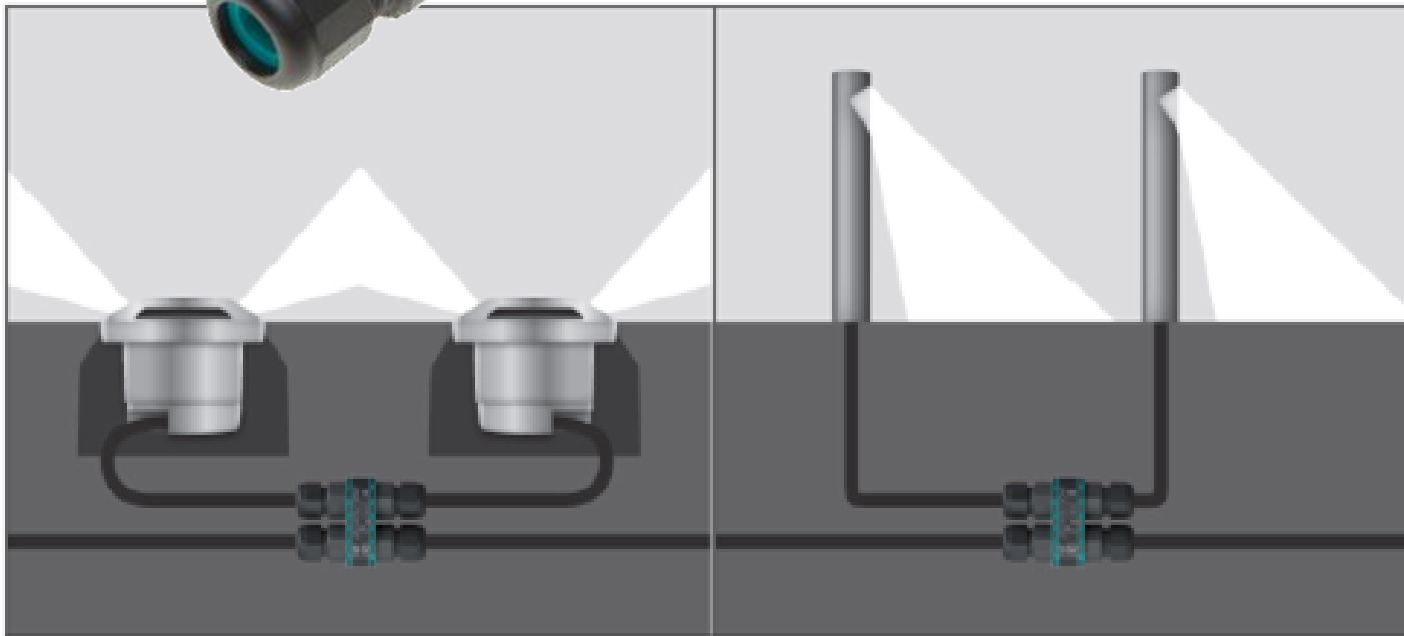
IP68

TH391





TH392 – mini-distribution unit



IP68

Outdoor lighting – examples

Singapore F1 Circuit



Outdoor lighting – examples

Birmingham Library (UK)



Outdoor lighting – examples

Emergency lighting



Street/Public area lighting





Anti-condensation

IP68²

Strong **outside** and **inside**



H₂O
Condensation
inside the wires



Anti-condensation Barrier ↑

Piercing clip plug and socket
connector for fast installation and
maintenance jobs

DECORATIVE LIGHTING

Decorative lighting
Christmas garlands
Luminaries



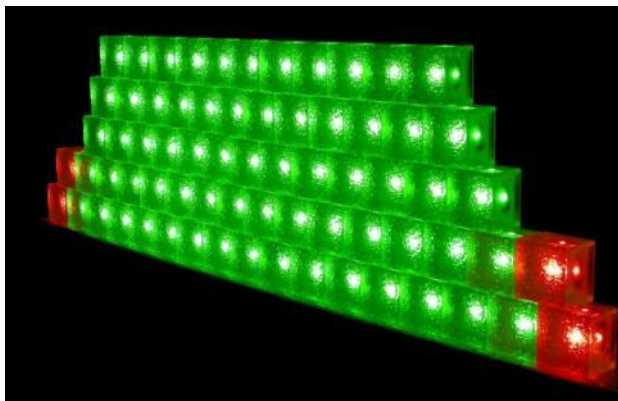
Click on

IP65



TH420 – Slim connector

IP67





TH386 – Quick-fixing connector

See video (www.techno.it)

IP67



Street lighting

INDUSTRIAL PROJECTS

Cabling
Trunking systems
Industrial installation



Compact terminal blocks
with functional solutions to
make the wiring easier



Industrial projects

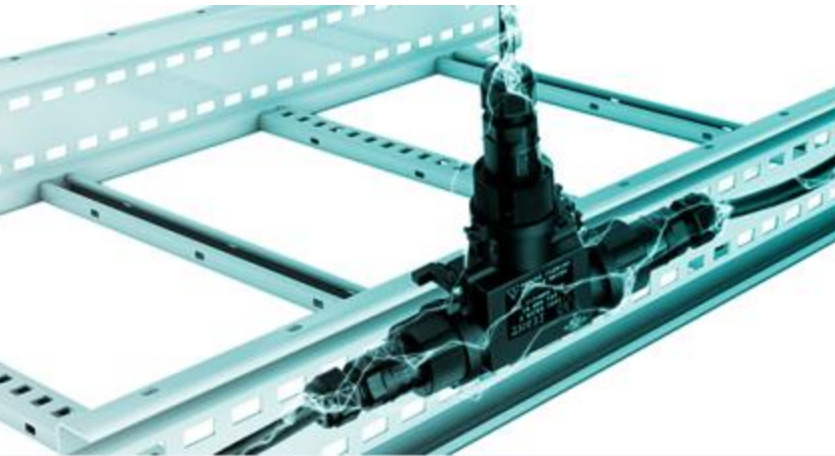
Cable tray/duct systems

- Compact design connectors and boxes

→ INSTALLATION IN TIGHT SPACES



Industrial projects



Industrial projects



Distribution panels



- High reliable cable glands
- Rapid plug&socket connectors



Special Applications

Applications:

- Irrigation machinery
- Floriculture
- Agricultural machinery
- Farms
- Plant cultivation
- Green houses
- Tractors



Customers:

- **Manufacturers (OEMs)**
- **Installation Companies**
- **Electrical distributors**



Special Applications

Applications

- Oil and gas
- Monitoring equipments
- Gas detection systems
- Mines

Customers

- Manufacturers (OEMs)
- Installation Companies
- Electric/Water/
Oil&Gas Utilities



(available 2014)

(resistance to
chemical agents,
oil, petrol)



Water/Gas Utilities

Applications:

- Water control equipments
- Water monitoring
- Motors and pumps

Customers:

- Manufacturers (OEMs)
- Water/gas utilities
- Distributor of electrical products



INDUSTRIAL MACHINES/ AUTOMATION

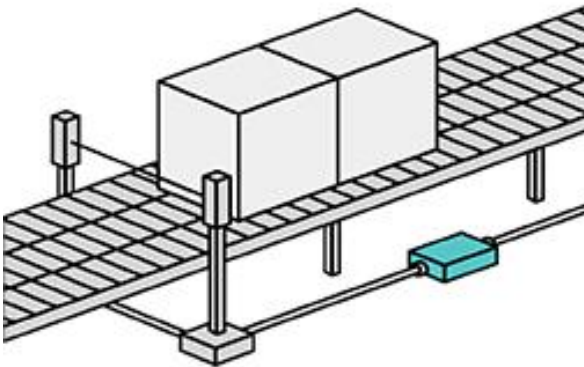
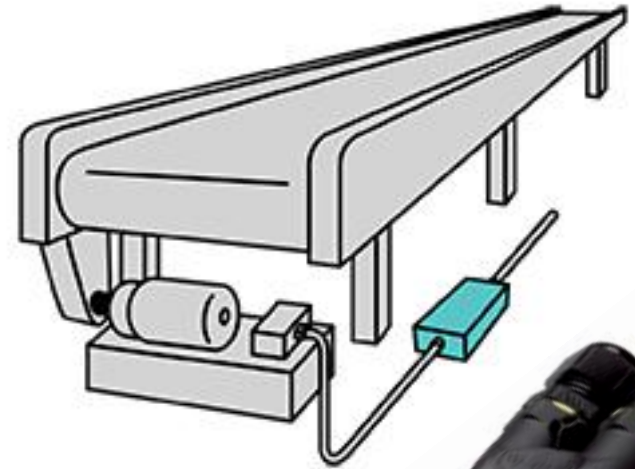
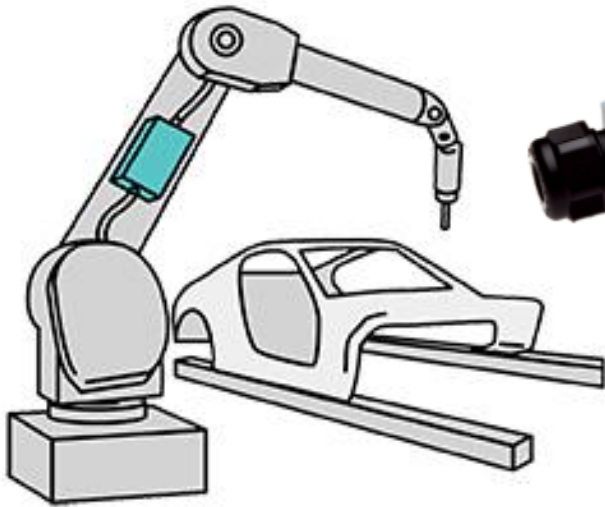
Tooling machine
Washing machines
Assembling machines



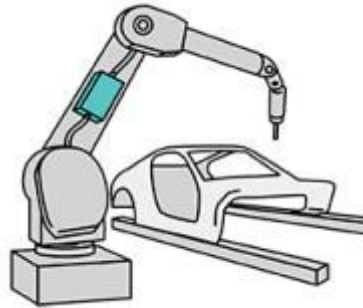
Resistance to wet&hot environments



Automation/Machinery



Automation/Machinery



Automation/Machinery

- Waterproof solutions (IP68) protection against water pressure during cleaning/maintenance works
- Resistance to very low-high temperature (-40°C - 125°C)
- Resistance to oil – corrosive substances



**→ HIGH RELIABILITY IN
INDUSTRIAL PROCESS**

Automation/Machinery



Other Applications

Applications

- Car washers
- Snow Guns
- Escalator, Lifts
- Telecommunication

Customers

- Manufacturers (OEMs)
- Electrical contractors
- Installation Companies



Other Applications



INDUSTRIAL MACHINES/ AUTOMATION

Pumps

Industrial machine

Packaging machine

Bottling machine

Electrical motors

Compatible with cable protection
systems, braided hoses and spiral top



Motors/Pumps

Applications:

- Pumps
- Submersion pumps
- Electrical motors
- Underwater applications

Customers:

- Manufacturers (OEMs)
- Distributor of electrical products
- Specialized distributor of components for motors/pumps



(Submersion pump) with TH384

TH400
(up to 50m deep)





Connectors designed to
resist against vibrations and
shocks

TRANSPORTS



Trains

Cabs, cable cars

Chairlifts

Trams and metros

Safety signaling – road traffic lights

Carwash

Garages

Caravan

Petrol station



Transportations

Transportations



Wiring of vehicle



Wiring of network

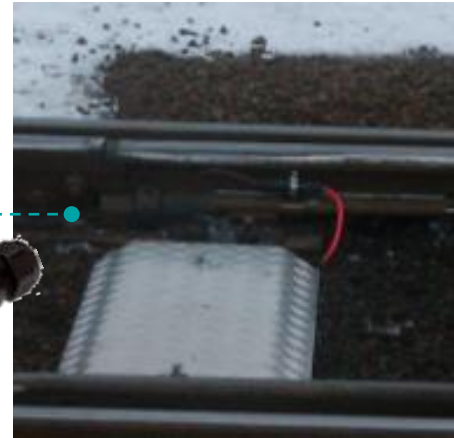


Wiring of services



Transportations

- Mechanical resistance
(reliability for vibrations, tractions)
- Connectors up to 6 poles: multiple
signals (approved up to 32A 400V)
- Usable with complex electrical
circuits



Caso #4



tratte ferroviarie urbane / Underground network and urban railway system



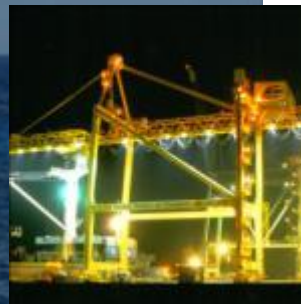
Nearest stations to Phys. Dept.



TRANSPORTS



Shipyards
Boats
Ports
Yacht



Marine applications



BUILDING

Lighting (garden lighting, indoor lighting, garage)

Electrical wiring (wiring devices, home-building automation)

Heating/Cooling systems

TVCC



Building

Applications:

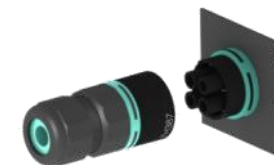
- Lighting (garden lighting, indoor lighting, garage)
- Electrical wiring (wiring devices, home-building automation)
- Heating/Cooling systems
- TVCC
- Cabling, cable tray, duct systems
- Trunking systems
- Industrial installation

Customers:

- **Manufacturers (OEMs)**
- **Installation Companies**
- **Electrical distributors**



TH387



Building

- Fast and intuitive connecting system

→ **COST-SAVINGS INSTALLATION**



Meeting room lighting



Plexiform



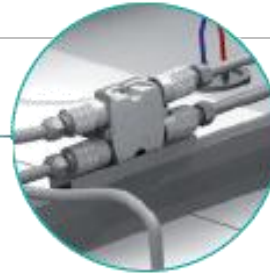
t techno
TECHNOLOGY & INNOVATION

Building

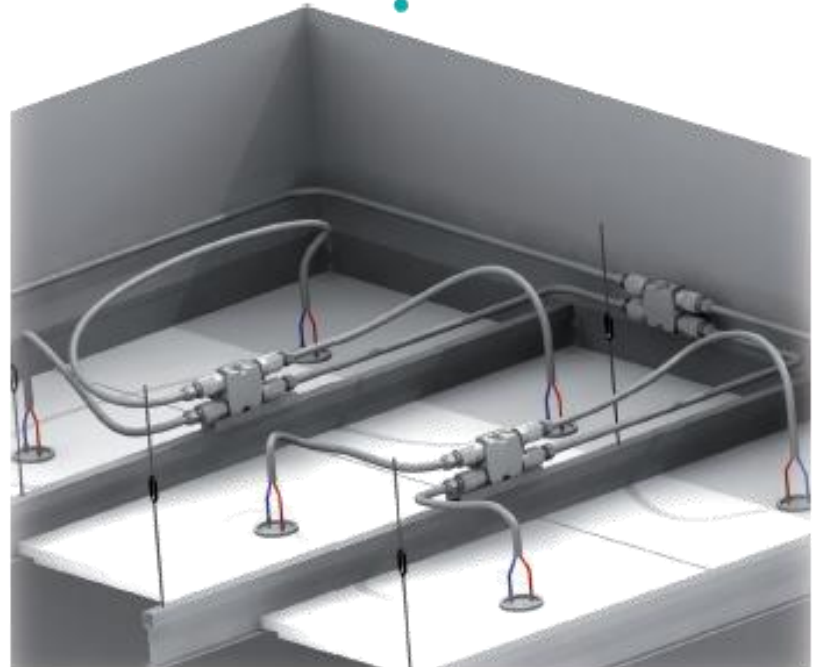
- Modular plug&play system

→ **MAXIMUM FLEXIBILITY**

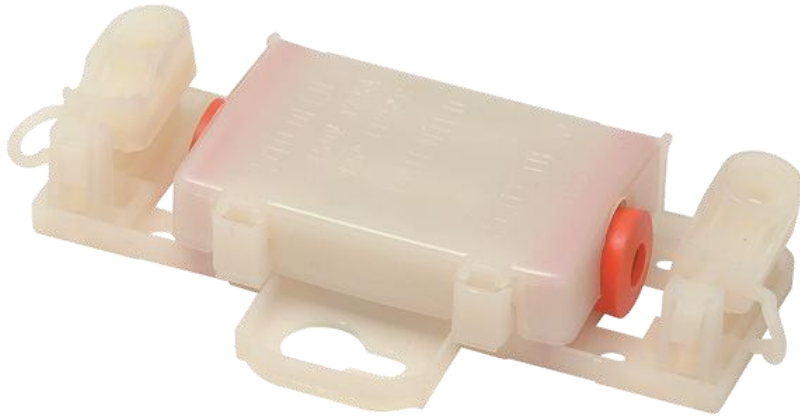
Ceiling lighting



Illuminazione a soffitto
Ceiling lighting



Building



IP44

Bathroom lighting

- Certified for EN60998 (IP44)

→ RELIABILITY IN SPECIFIC APPLICATION
(bathroom – kitchen)



Building



IP54

see video (www.techno.it)



ENERGIES

Off-shores
Solar
Wind
Oil station



Solar Project

- UV Resistance
- Rapid connectors for plug&play systems (AC/DC)

→ **TIME-SAVINGS AND RELIABLE CONNECTIONS**

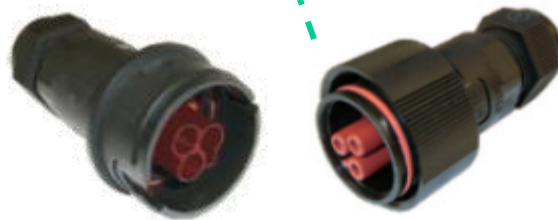


1000V DC approved

Solar Project

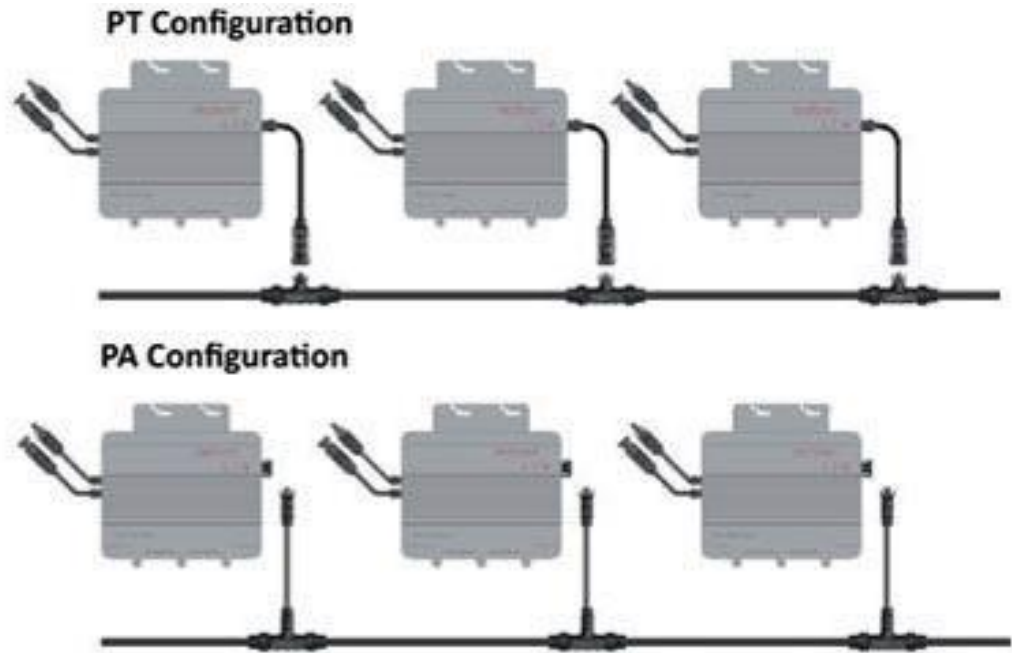
- Inverter

*Substitution
of standard
cable gland*



Solar Project

- Micro inverter application



Wind Power



WELLNESS

Impianti idrici e idrosanitari

Piscine

SPA

Idromassaggi

Arredo bagno

Acquari



Waterproof solutions (IP68)

High-quality materials and excellent design/moulding



Wellness/Swimming-pool

Applications:

- Hydro sanitary devices
- Swimming pools
- SPA/Hot-tubes
- Bathroom accessories/lighting

Customers:

- Manufacturers (OEMs)
- Installation Companies of Swimming Pools
- Specialized distributor of components

Examples:



TH400



TH390



t techno
TECHNOLOGY & INNOVATION

Vending

Applications:

- Industrial fridges
- Vending machines

Customers:

- Manufacturers (OEMs)



TH631

Home appliances

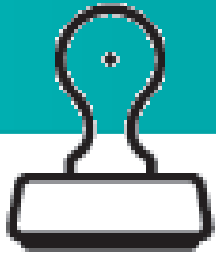
- Compact design
- EN Approvals for wet environments

→ **HIGH RELIABILITY IN
RESIDENTIAL APPLICATIONS**



Click on





CERTIFIED



ISO 9001:2008



Ozone resistant



UV resistant



Chlorine resistant



Vibration



Ammonium
resistant



hydrocarbons resistant



Qmmy2



RoHS



(1) pending



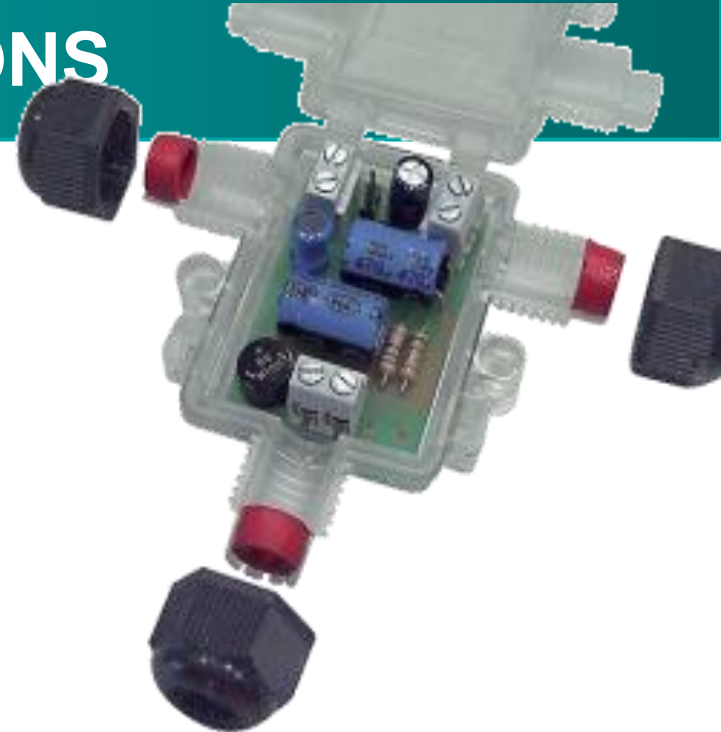


CUSTOM MADE SOLUTIONS





CUSTOM MADE SOLUTIONS





**When reliable electrical
connections are required**