



## IPX8 gel insulated connecting device with lever connectors

**Shell Box<sup>®</sup>** is an innovative series of gel insulated connecting device with Spring Box<sup>®</sup> lever connectors, to quickly and safely make, insulate, and protect electrical connections in any number of home and industrial applications with no need for tools.

Thanks to its silicone gel insulation, **Shell Box<sup>®</sup>** protects narrow cable (0.2 - 4 mm<sup>2</sup>) connections from water, moisture, and dust both indoors and outdoors and can be used for lighting fixtures, pumps, automation for windows, doors and gates, telephone and telecommunications systems, sound systems, and cable radio.

Three sizes and five versions allow low-voltage connection of up to five conductors on a single phase, and up to two conductors on two or three phases.

### Protection from water and weathering

The **silicone gel** inside the minibox insulates and protects the connections from water, moisture, and weathering and guarantess an IPX8 protection level, in accordance with EN 60529 standard. The snap-shut closure and the design of the minibox prevent accidental gel leakage, except on the cable inlet side, where it ensures that the connection is properly sealed.



### Re-enterable

With its soft-drying gel and Spring Box<sup>®</sup> technology, it is possible to re-enter the connection at any time to check the voltage thanks to the integrated test-point, or to work on any of the conductors.

### Eco-friendly

The gel inside the minibox is non-toxic, has no expiry date and is classified as non-hazardous unde European Regulation no. 1272/2008 (CLP).



### Spring Box<sup>®</sup> included

Shell Box<sup>®</sup> kits retain the innovative features and benefits of Spring Box<sup>®</sup> insulated connectors with lever clamps:

- Can be used with a wide range of rigid and flexible cable cross-sections: 0.2 - 4 mm<sup>2</sup>
- Rated voltage 600 VV
- Rated current 32 A
- No risk of damage to even small cross-section wires
- Compliant with Low Voltage Directive 2014/35/EU according to EN 60947-7-1 and EN 60998-2-2 standards TÜV-Rheinland certificate

**SPRING<sup>®</sup>**  
lever connectors



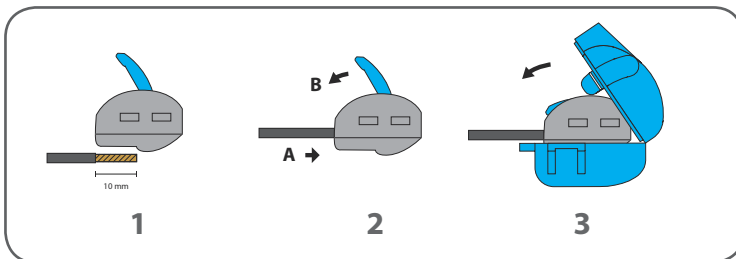
## Advantages

- Compact size
- Quick and easy installation without tools
- Re-enterable
- Work on each conductor individually
- Double insulation
- No accidental gel leakage
- Versatility of use
- Reliable connections thanks to spring-loaded technology
- Use with both rigid and flexible narrow cross-section cables
- No risk of damaging wires
- Good mechanical resistance
- Eco-friendly, non-toxic with no expiry date

## Applications

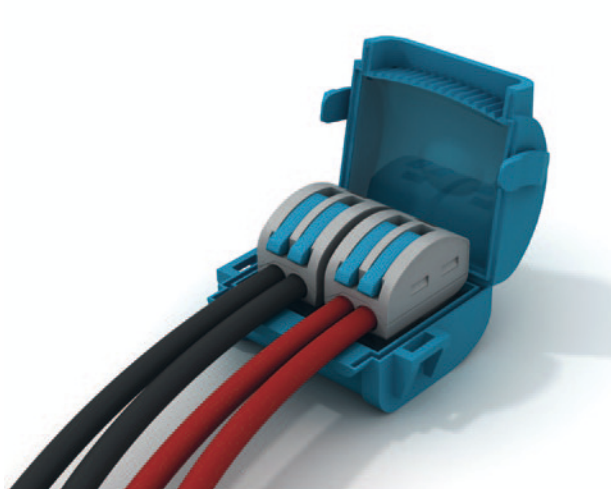
- Insulation and protection, even in contact with water, of low voltage electrical connections using narrow cross-section cables (lighting fixtures, automation for windows, doors and gates, telephone and telecommunications systems, sound systems, and cable radio)
- Wiring junction boxes for ceilings or outdoors
- Insulation and additional protection for junction box connections
- Terminal insulation for live cables
- Connection capacity:  
up to five conductors on a single phase  
or up to two conductors on two or three phases

### Protected and secure connections in 3 simple steps

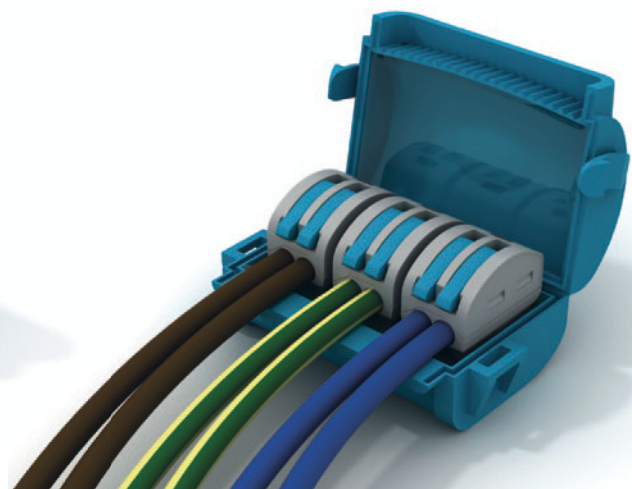


- 1 Strip the cables exposing 10 mm of core.
- 2 Insert the cable into one of the openings of the Spring Box® and lower the clamping lever with simple finger pressure. Repeat for all the cables to be connected.
- 3 Place the connector/s in the gel insulated Shell Box® and snap it shut. The gel will leak out from the cable entry openings and will seal the connector and the connection against water, moisture, and dust.

The shell + connector system is immediately ready for use.



**Shell Box 222**  
Connecting two-core cables



**Shell Box 332**  
Connecting three-core cables



- IPX8 protection level in accordance with EN 60529 standard (Intertek certificate No. 200018187UDI-NSR)
- **Spring Box® connectors** comply with the Low Voltage Directive 2014/35/EU in accordance with EN 60947-7-1 and EN 60998-2-2 standards TÜV-Rheinland certificate (no. R 50349910)
- Rated insulation voltage: 600 V
- Rated current: 32 A
- Conductor cross-section (rigid and flexible): 0.2 - 4 mm<sup>2</sup>
- The gel inside the shells is classified as non-hazardous according to European Regulation no. 1272/2008 (CLP) n. 1272/2008 (CLP)



## Applications

- Insulation and protection, even in contact with water, of low voltage electrical connections for narrow cross-section cables (lighting fixtures, automation for windows, doors and gates, telephone and telecommunications systems, audio systems, and cable radio)
- Junction boxes for ceilings or outdoors
- Insulation and additional protection for connections in junction boxes
- Terminal insulation for live cables
- Connection capacity: up to five conductors on a single phase or up to two conductors on two or three phases

## Advantages

- Compact size
- Quick and easy installation without tools
- Re-enterable
- Work on each conductor individually
- Double insulation
- No accidental gel leakage
- Versatility of use
- Reliable connections thanks to spring-loaded technology
- For use with both rigid and flexible narrow cross-section cables
- No risk of damaging wires
- Good mechanical resistance
- Eco-friendly, non-toxic with no expiry date

## Features

- Pre-filled shell with silicone gel and snap-shut closure
- Compact Spring Box® lever connectors included (p. 110)

## Selection table

item	shell with gel	connectors included		
		code	number	pole/connector
Shell Box 112	size 1	SBOX2	1	2
Shell Box 113	size 1	SBOX3	1	3
Shell Box 222	size 2	SBOX2	2	2
Shell Box 215	size 2	SBOX5	1	5
Shell Box 332	size 3	SBOX2	3	2

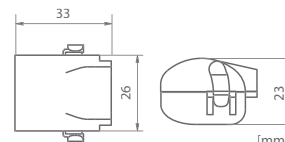
SIZE  
1



## Shell Box 112

cod. MJB112

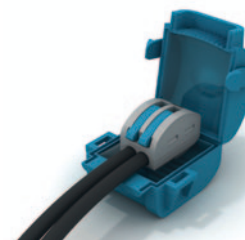
Minibox size 1  
gel insulated  
with 1 connector  
Spring Box 2



Connection and protection  
1 pole - 2 conductors

### Connection capacity

no. poles	no. wires/pole	cross sect. (mm <sup>2</sup> )
1	2	0.2 - 4



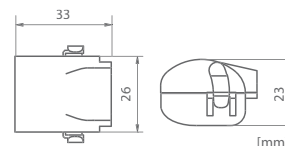
SIZE  
1



## Shell Box 113

cod. MJB113

Minibox size 1  
gel insulated  
with 1 connector  
Spring Box 3



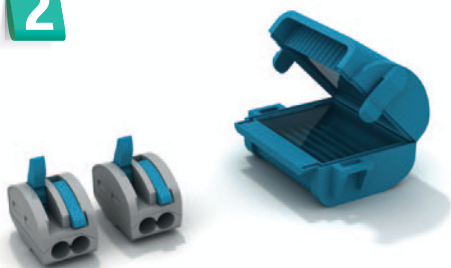
Connection and protection  
1 pole - 3 conductors

### Connection capacity

no. poles	no. wires/pole	cross sect. (mm <sup>2</sup> )
1	3	0.2 - 4



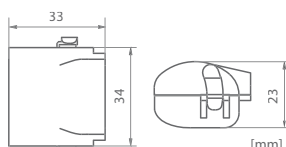
SIZE  
2



## Shell Box 222

cod. MJB222

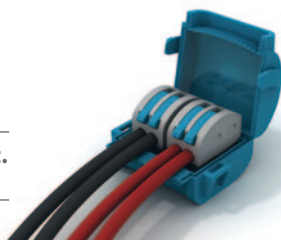
Minibox size 2  
gel insulated  
with 2 connectors  
Spring Box 2



Connection and protection  
2 poles - 2 conductors

Connection capacity

no. poles	no. wires/pole	cross sect. (mm <sup>2</sup> )
2	2	0.2 - 4



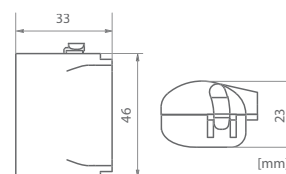
SIZE  
3



## Shell Box 332

cod. MJB332

Minibox size 3  
gel insulated  
with 3 connectors  
Spring Box 2



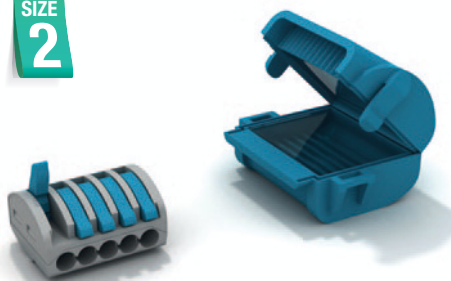
Connection and protection  
3 poles - 2 conductors

Connection capacity

no. poles	no. wires/pole	cross sect. (mm <sup>2</sup> )
3	2	0.2 - 4



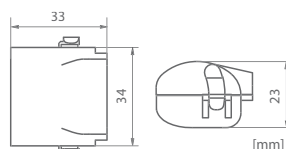
SIZE  
2



## Shell Box 215

cod. MJB215

Minibox size 2  
gel insulated  
with 1 connector  
Spring Box 5



Connection and protection  
1 pole - 5 conductors

Connection capacity

no. poles	no. wires/pole	cross sect. (mm <sup>2</sup> )
1	5	0.2 - 4

