

# GEL CONNECTION

SMALL WATERPROOF ACCESSORIES FOR BIG INSTALLATIONS

**IPX8**  
OFFICIALLY  
TESTED

**IMQ**



**Ray  
tech®**

CABLE ACCESSORIES COMPANY

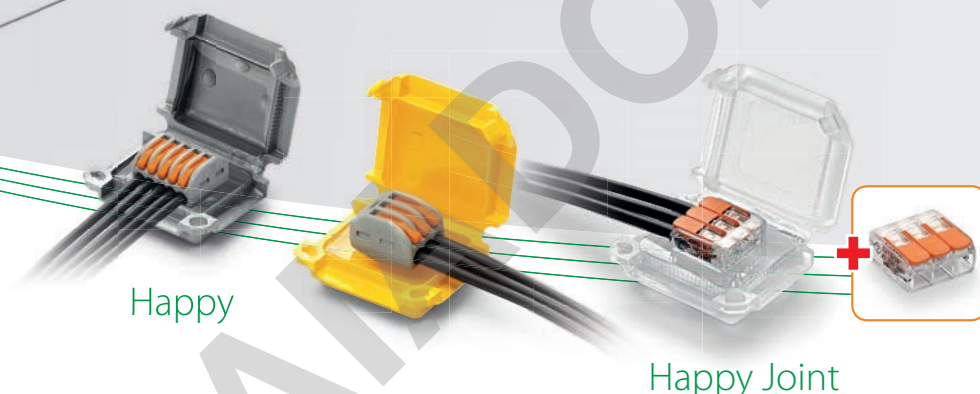


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## Revolution

pag. 4



## Classic

*Gel Box Line*

pag. 8



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# GEL CONNECTION

## SMALL **WATERPROOF** ACCESSORIES FOR BIG INSTALLATIONS

**THE STRENGTH OF SIMPLICITY**, the largest range of small pre-filled accessories to protect, make reliable and seal electrical connections.

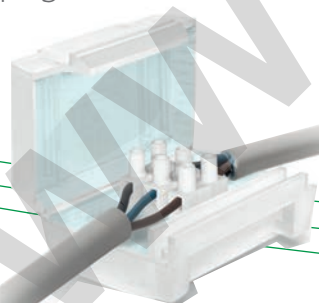
Ready to use and with no shelf life, they offer maximum versatility through the widest variety of dimensions to face any installation with efficiency and comfort.

Suitable for several types of connectors, from traditional screwed strip connectors to the latest innovative extra flat models. They represent the most versatile, easy to use and reliable system to bring connectors designed for indoors, outdoors.

### Classic

*Gel Cover Line*

pag. 12



OHM & BAR



Mammut  
gel cover

### Special Kit

pag. 14



Nano  
Joint

Extra flat  
connectors



Nano  
For

Kit with end  
connectors/  
terminal blocks





Nano  
Mam

Kit with terminal  
blocks

Bravo  
with integrated  
connectors



Gel: UL 94-HB 

Operating temperature 

Installation temperature:   
-40°C / +50°C

Fully submersible 

Can be used underground 

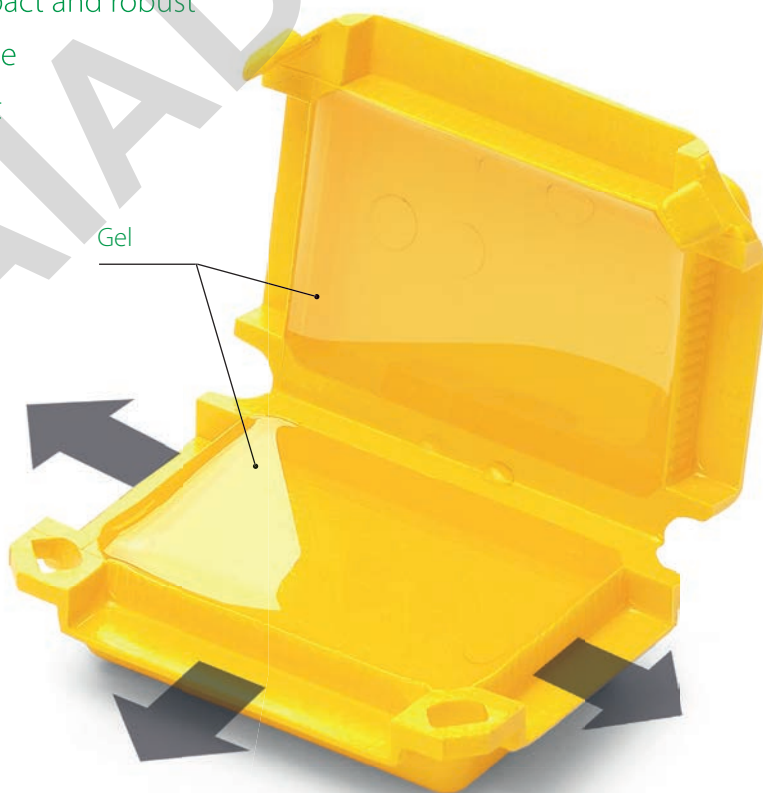
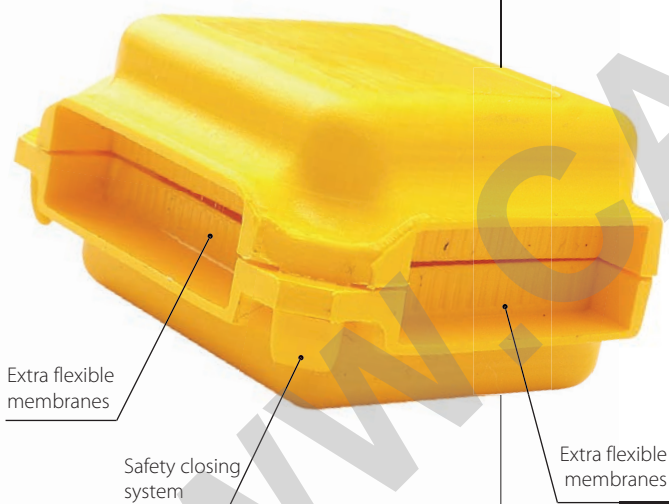
IPX8  
OFFICIALLY  
TESTED | IMQ

# Happy

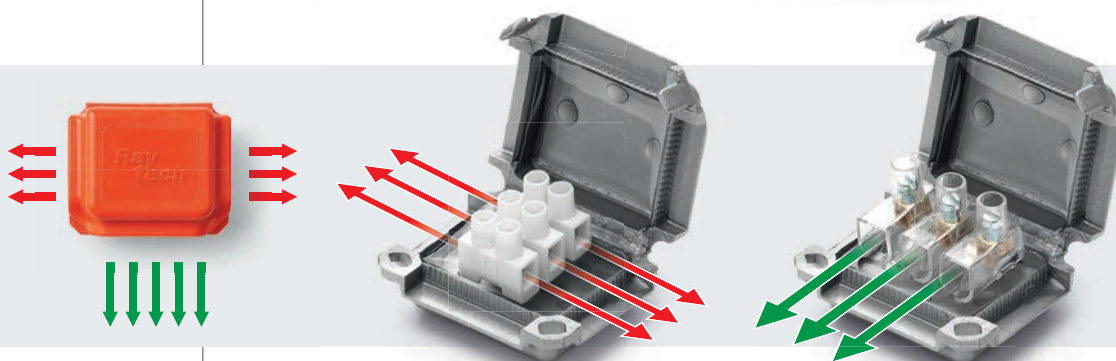
The revolutionary mini accessories with 3 entrances, pre-filled with gel and suitable for submersible installations (IPX8).

Designed in 3 dimensions to rapidly insulate and seal the most commonly used connectors. The 3 entrances not only guarantee the extreme flexibility in the range of these products but also by the housing accepting a wide variety of connectors.

- Extremely versatile - Ready to use - Re-enterable
- For rigid or flexible insulated wires up to 4 mm<sup>2</sup>
- Pre-filled with gel, non toxic and no shelf life
- Small compact and robust
- Halogen free
- UV resistant



Configuration examples





## Happy 0

Product	Description	Package	A x B x C (mm)
Happy 0	x 4 pcs	Blister	41 x 28 x 19

IDEAL FOR (or similar):



A x B x C (mm)

41 x 28 x 19



## Happy 1

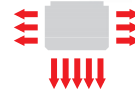
Product	Description	Package	A x B x C (mm)
Happy 1	x 2 pcs	Blister	45 x 37 x 24

IDEAL FOR (or similar):



A x B x C (mm)

45 x 37 x 24



## Happy 2

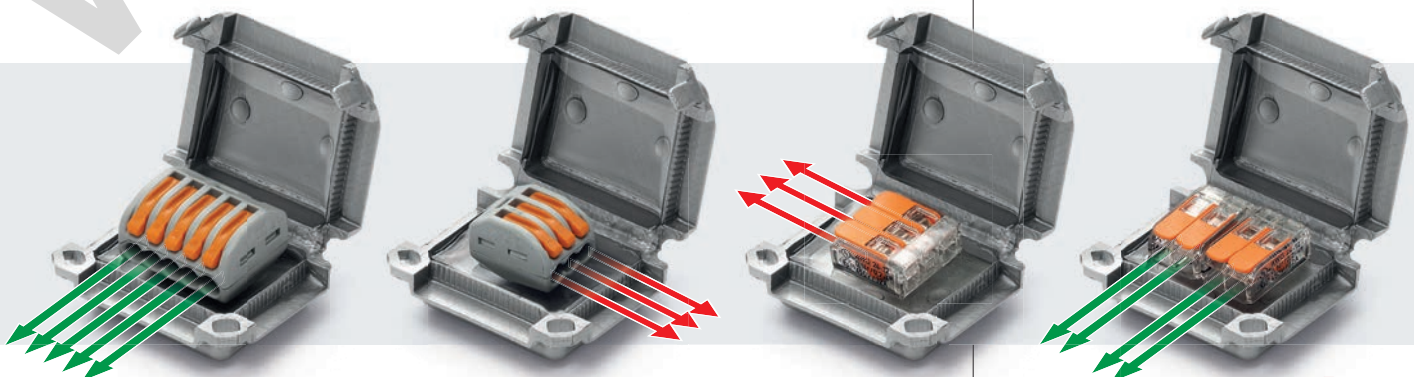
Product	Description	Package	A x B x C (mm)
Happy 1	x 1 pcs	Blister	53 x 39 x 24

IDEAL FOR (or similar):



A x B x C (mm)

53 x 39 x 24






**Ray  
tech** *New*

**Electrical performance:**

CEI EN 50393: 2006  
as applicable

**Gel:** UL 94-HB  US

Operating temperature  90°C

Installation temperature:  -40°C / +50°C

Fully submersible 

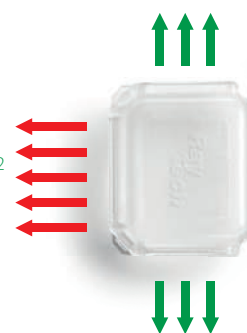
Can be used underground 

**IPX8**  
OFFICIALLY  
TESTED | **IMQ**

# Happy Joint

The revolutionary mini accessories with 3 entrances, pre-filled with gel and suitable for submersible installations (IPX8) complete with connectors.

- Extremely versatile - ready to use - re-enterable
- Small, compact and robust
- No need for tools
- Pre-filled with gel, non toxic and no shelf life
- Can energise immediately
- For straight and branch connections
- For rigid or flexible insulated wires up to 4 mm<sup>2</sup>
- Up to 5 conductors on one phase or up to two conductors on two or three phases
- Halogen free
- UV resistant



### Happy Joint 3

Product	Formation and wires cross section (Max N° x mm²)	Combination	Pieces for package	A x B x C (mm)
Happy Joint 3	3 x 1 - 4	2 through / 1 branch	4 pcs/ Blister	41 x 28 x 19



With one connector included for each Happy

### Happy Joint 4

Product	Formation and wires cross section (Max N° x mm²)	Combination	Pieces for package	A x B x C (mm)
Happy Joint 4	4 x 1 - 4	2 through / in/out	2 pcs/ Blister	45 x 37 x 24



With two connectors included for each Happy

### Happy Joint 5

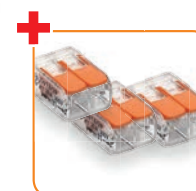
Product	Formation and wires cross section (Max N° x mm²)	Combination	Pieces for package	A x B x C (mm)
Happy Joint 5	5 x 1 - 4	2 through / 3 branch	2 pcs/ Blister	45 x 37 x 24



With one connector included for each Happy

### Happy Joint 6

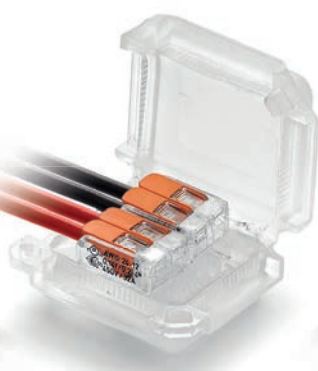
Product	Formation and wires cross section (Max N° x mm²)	Combination	Pieces for package	A x B x C (mm)
Happy Joint 6	6 x 1 - 4	3 through / in/out	1 pcs/ Blister	53 x 39 x 24



With three connectors included for each Happy



HAPPY JOINT 3



HAPPY JOINT 4





HAPPY JOINT 5





HAPPY JOINT 6




Gel: UL 94-HB 

Operating temperature 

Installation temperature:   
-40°C / +50°C

Fully submersible 

Can be used underground 

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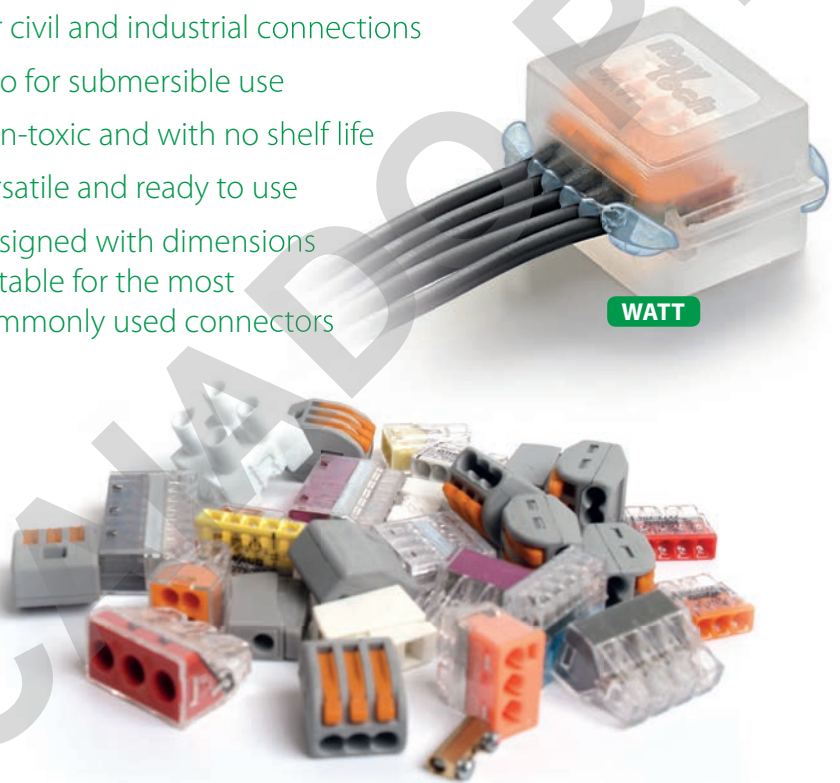
**GEL BOX LINE**  
*a simple way  
to bring indoor  
connectors outdoors*

## Gel Box Line

Pre-filled gel accessories for sealing, protecting and making safe electrical connections

- To put household systems in order
- For civil and industrial connections
- Also for submersible use
- Non-toxic and with no shelf life
- Versatile and ready to use
- Designed with dimensions suitable for the most commonly used connectors

WATT



JOULE

ISAAC

KELVIN

PASCAL

Gel

## Isaac

Product	Description	Package	A x B x C (mm)
Isaac 4	x 4 pcs	Blister	30 x 27 x 23
Isaac 4 P30	x 30 pcs	Box	
Isaac 4 MP *	x 50 pcs	Multipack	

IDEAL FOR (or similar):



\* Also available the flame retardant version in the following colours: yellow, orange, blue or black.

## Pascal

Product	Description	Package	A x B x C (mm)
Pascal 6	x 2 pcs	Blister	36 x 37 x 26
Pascal 6 P15	x 15 pcs	Box	
Pascal 6 MP *	x 25 pcs	Multipack	

IDEAL FOR (or similar):



\* Also available the flame retardant version in the following colours: yellow, orange, blue or black.



## Watt

Product	Description	Package	A x B x C (mm)
Watt	x 2 pcs	Blister	30 x 42 x 26
Watt P15	x 15 pcs	Box	
Watt MP *	x 25 pcs	Multipack	

IDEAL FOR (or similar):



3x 2.5 mm<sup>2</sup>



2x + 2x 2.5 mm<sup>2</sup>



5x 2.5 mm<sup>2</sup>



2x + 2x 4 mm<sup>2</sup>



5x 4 mm<sup>2</sup>

\* Also available the flame retardant version in the following colours: yellow, orange, blue or black.



## Joule

Product	Description	Package	A x B x C (mm)
Joule	x 1 pcs	Blister	33 x 52 x 26
Joule MP *	x 20 pcs	Multipack	

IDEAL FOR (or similar):

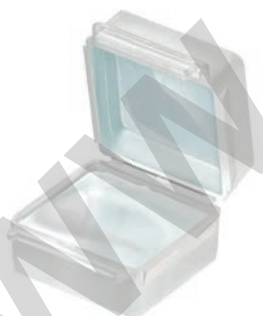


2x + 2x + 2x 2.5 mm<sup>2</sup>



2x + 2x + 2x 4 mm<sup>2</sup>

\* Also available the flame retardant version in the following colours: yellow, orange, blue or black.



## Kelvin

Product	Description	Package	A x B x C (mm)
Kelvin	x 1 pcs	Blister	52 x 53 x 29
Kelvin P9	x 9 pcs	Box	
Kelvin MP *	x 20 pcs	Multipack	

IDEAL FOR (or similar):

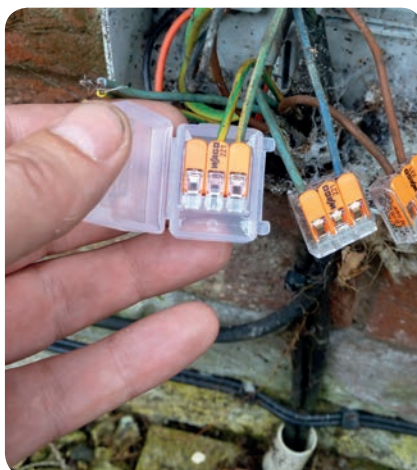


3x 6 mm<sup>2</sup>



3x 6 mm<sup>2</sup>

\* Also available the flame retardant version in the following colours: yellow, orange, blue or black.



# Gel Box Line Kit

Complete with connectors

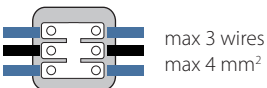
## Pascal M2,5

Product	Description	Package	A x B x C (mm)
Pascal M2,5	12 pieces + 36 terminal blocks (2.5 mm <sup>2</sup> )	Box	36 x 37 x 26



## Kelvin M4

Product	Description	Package	A x B x C (mm)
Kelvin M4	6 pieces + 24 terminal blocks (4 mm <sup>2</sup> )	Box	52 x 53 x 29



## Watt +

Product	Description	Package	A x B x C (mm)
Watt + 1.5	10 pieces + 30 end connectors/terminal blocks (1.5 mm <sup>2</sup> )	Box	30 x 42 x 26
Watt + 2.5	10 pieces + 30 end connectors/terminal blocks (2.5 mm <sup>2</sup> )	Box	



## Kelvin +


Product	Description	Package	A x B x C (mm)
Kelvin + 4	10 pieces + 30 end connectors/terminal blocks (4 mm <sup>2</sup> )	Box	52 x 53 x 29
Kelvin + 6	10 pieces + 30 end connectors/terminal blocks (6 mm <sup>2</sup> )	Box	
Kelvin 6+4	6 pieces + 20 end connectors/terminal blocks (4 mm <sup>2</sup> )	Box	
Kelvin 6+6	6 pieces + 20 end connectors/terminal blocks (6 mm <sup>2</sup> )	Box	





Electrical performance: CEI EN 50393

Gel: UL 94-HB 

Operating temperature  90°C

Installation temperature:  -40°C / +50°C

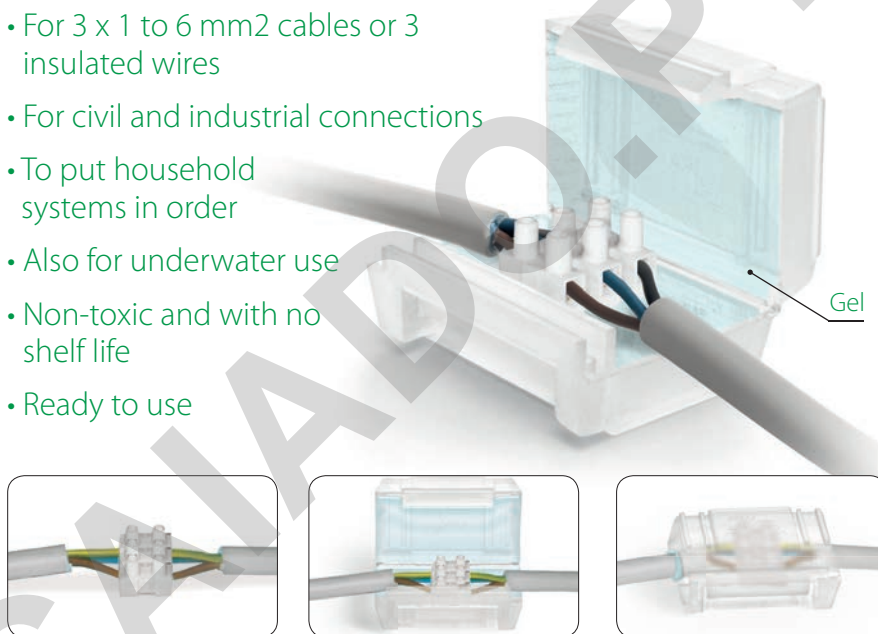
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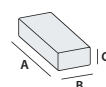
# Gel Cover Line

Pre-filled gel accessories for straight connections, for the protection, safety and covering of electrical connections using strip connectors or alternatives

- For 3 x 1 to 6 mm<sup>2</sup> cables or 3 insulated wires
- For civil and industrial connections
- To put household systems in order
- Also for underwater use
- Non-toxic and with no shelf life
- Ready to use



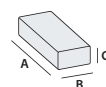
## OHM & BAR



Product	Housed connectors type	Pieces for package	Package type	Dimensions A x B x C (mm)
OHM	2 from 4 mm <sup>2</sup>	1	blister	61 x 35 x 28
OHMp11		11	box	
BAR	3 from 4 mm <sup>2</sup> / 6 mm <sup>2</sup>	1	blister	63 x 41 x 28
BARp9		9	box	



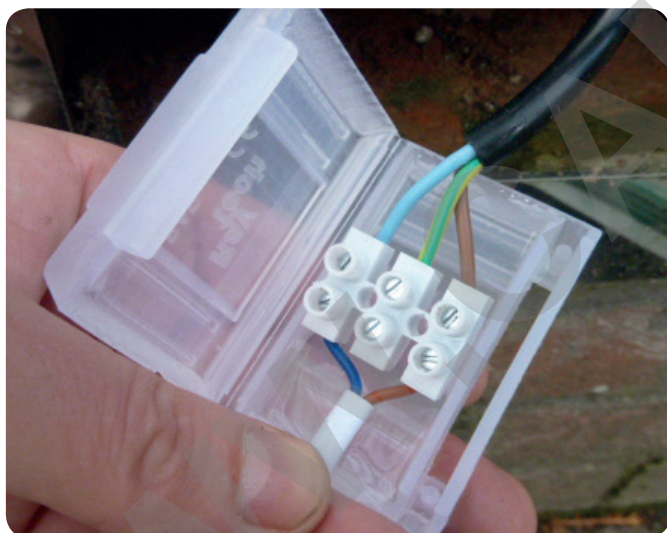
## Mammut Gel Cover



Product	Housed connectors type	Pieces for package	Package type	Dimensions A x B x C (mm)
Gel Cover 4	2 from 4 mm <sup>2</sup>	1	blister	61 x 35 x 28
Mammut Gel Cover		6	box	
Gel Cover 6	3 from 4 mm <sup>2</sup> / 6 mm <sup>2</sup>	1	blister	63 x 41 x 28
Mammut Gel Cover 6		8	box	

No flame propagation. CEI 20-35 • IEC 60332-1 • HD405-1 (as applicable) **Casing mix:** UL 94-V2

## Installation examples






### Electrical performance:

CEI EN 50393: 2006  
as applicable

Gel: UL 94-HB 

Operating temperature 

Installation temperature:   
-40°C / +50°C

Fully submersible 

Can be used underground 

**IPX8**  
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# Nano Joint

Pre-filled gel accessories to seal, protect and make safe electrical connections.

Inclusive of connectors

- Ready to use, quick, re-enterable!
- No tools required
- Can energise immediately
- For straight & branch connections
- For rigid or flexible insulated wires from 1 a 4 mm<sup>2</sup>
- For 1, 2 and 3 cores connections
- Up to 5 conductors on one phase or up to 2 conductors on two or three phase
- Small, compact and resistant
- No shelf life
- Halogen free
- UV resistant



**NANO JOINT 3**

**NANO JOINT 5**

**NANO JOINT 6**

*Latest generation,  
extra flat connectors  
included in thew kit.*

### Nano 3

Product	Formation and wires cross section (Max N° x mm²)	Combination	Pieces for package	A x B x C (mm)
Nano 3	3 x 1 - 4	2 through / 1 branch	4 pcs/ Blister	30 x 27 x 23



With one connector included for each Nano Joint

### Nano 5

Product	Formation and wires cross section (Max N° x mm²)	Combination	Pieces for package	A x B x C (mm)
Nano 5	5 x 1 - 4	2 through / 3 branch	2 pcs/ Blister	30 x 42 x 26



With one connector included for each Nano Joint

### Nano 6

Product	Formation and wires cross section (Max N° x mm²)	Combination	Pieces for package	A x B x C (mm)
Nano 6	6 x 1 - 4	3 through / In/Out	1 pcs/ Blister	33 x 52 x 26



With three connectors included for each Nano Joint






### Electrical performance:

CEI EN 50393: 2006  
as applicable

Gel: UL 94-HB 

Operating temperature 

Installation temperature:   
-40°C / +50°C

Fully submersible 

Can be used underground 

IPX8  
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# Nano Mam - For

Pre-filled gel accessories to seal, protect and make safe electrical connections.

Inclusive of connectors.

- Ready to use, quick, re-enterable!
- Ideal for outdoor & underground installations, fully submersible
- Immediately energizable
- For rigid or flexible insulated wires from 1 a 4 mm<sup>2</sup>
- For 1, 2 or 3 cores connections
- Small, compact and resistant
- No shelf life
- Halogen free
- UV resistant



### Nano Mam 2,5

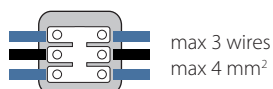
Product	Formation and wires cross section (Max N° x mm²)	Combination	Pieces for package	A x B x C (mm)
Nano Mam 2,5	3 x 1 - 2,5	3 through	2 pcs/ Blister	36 x 37 x 26



With one connector included for each Nano Mam

### Nano Mam 4

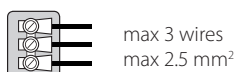
Product	Formation and wires cross section (Max N° x mm²)	Combination	Pieces for package	A x B x C (mm)
Nano Mam 4	3 x 1,5 - 4	3 through	1 pcs/ Blister	52 x 53 x 29



With one connector included for each Nano Mam

### Nano For 2,5

Product	Formation and wires cross section (Max N° x mm²)	Combination	Pieces for package	A x B x C (mm)
Nano For 2,5	3 x 1 - 2,5	3 connections / In/Out	1 pcs/ Blister	33 x 52 x 26



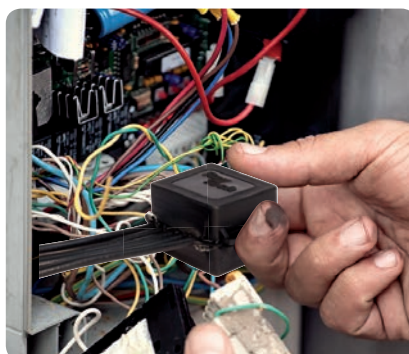
With one connector included for each Nano For

### Nano For 4

Product	Formation and wires cross section (Max N° x mm²)	Combination	Pieces for package	A x B x C (mm)
Nano For 4	3 x 1 - 4	3 connections / In/Out	1 pcs/ Blister	52 x 53 x 29



With one connector included for each Nano For






### Electrical performance:

CEI EN 50393: 2006  
as applicable

Gel: UL 94-HB 

Operating voltage: 0,6 / 1kV

Operating temperature 

Installation temperature:   
-40°C / +50°C

Fully submersible 

Can be used underground 

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# Bravo

The first "Gel-Box" with integrated connectors!

- Ready to use, quick, re-enterable!
- Self-locking connection block
- For rigid or flexible insulated wires from 1 a 6 mm<sup>2</sup>
- Immediately energizable
- For straight & branch connections
- For 1 or 3 cores connections
- Small, compact and transparent
- No shelf life
- Halogen free
- UV resistant

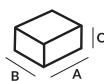


**BRAVO 3-6**

**BRAVO 1-6**

### Bravo 1-6

Product	Formation and wires cross section		Pieces for package	A x B x C (mm)
	Straight or through (N° x mm²)	Branch (N° x mm²)		
Bravo 1-6	1 x 1 - 6	1 x 1 - 6	1 pcs/ Blister	50 x 29 x 22



### Bravo 3-6

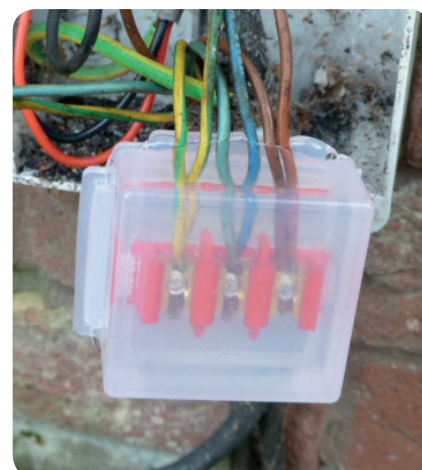
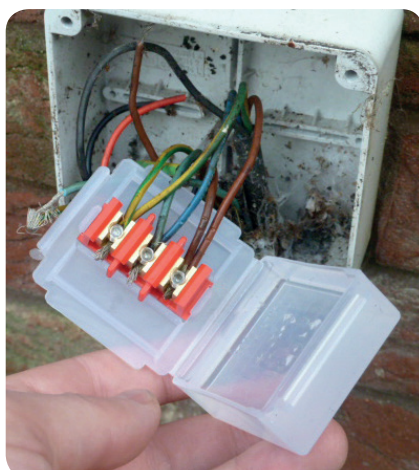
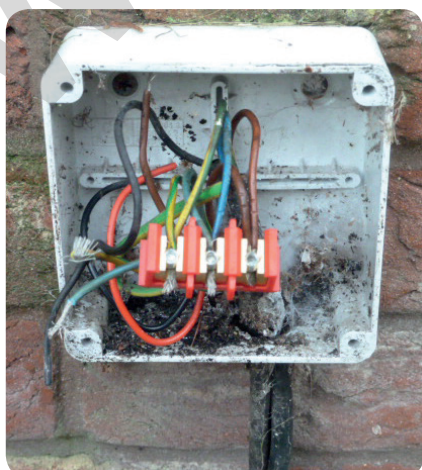
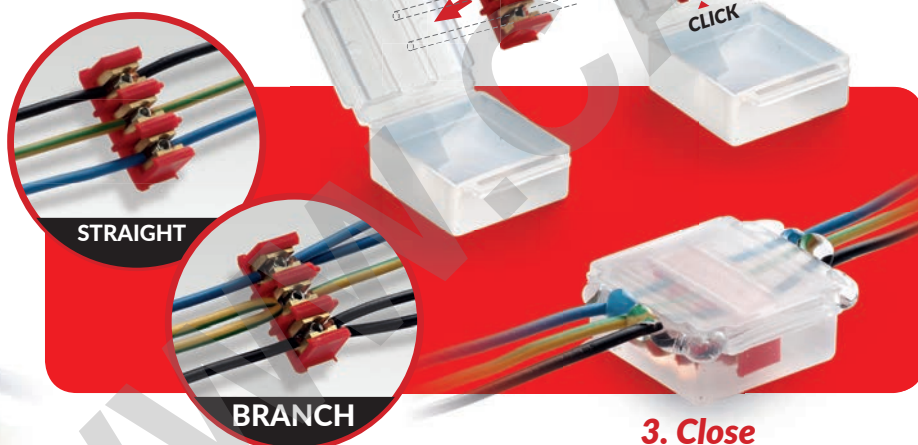
Product	Formation and wires cross section		Pieces for package	A x B x C (mm)
	Straight or through (N° x mm²)	Branch (N° x mm²)		
Bravo 3-6	2 x 1 - 6 3 x 1 - 6	2 x 1 - 6 3 x 1 - 6	1 pcs/ Blister	53 x 49 x 22



1. Connect

2. Fix

3. Close






## To choose the suitable accessory for

**Gel Connection  
Accessories  
also suitable  
for continuous  
submersible use**

**IPX8**  
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Gel: UL 94-HB 



Operating  
temperature 

Installation temperature:   
-40°C / +50°C

Fully submersible 

Can be used underground 

**Ray  
tech**

GEL CONNECTION				
		2x	3x	3x
Revolution	 <b>HAPPY 0</b> 41 x 28 x 19 mm	 2,5 mm <sup>2</sup>		
	 <b>HAPPY 1</b> 45 x 37 x 24 mm	 2,5 mm <sup>2</sup>	 2,5 mm <sup>2</sup>	 2,5 mm <sup>2</sup>
	 <b>HAPPY 2</b> 53 x 39 x 24 mm		 4 mm <sup>2</sup>	 4 mm <sup>2</sup>
Classic Gel Box Line	 <b>ISAAC</b> 30 x 27 x 23 mm	 2,5 mm <sup>2</sup>		
	 <b>PASCAL</b> 36 x 37 x 26 mm	 4 mm <sup>2</sup>	 4 mm <sup>2</sup>	 1,5 mm <sup>2</sup>
	 <b>WATT</b> 30 x 42 x 26 mm			 2,5 mm <sup>2</sup>
	 <b>JOULE</b> 33 x 52 x 26 mm			 4 mm <sup>2</sup>
	 <b>KELVIN</b> 52 x 53 x 29 mm		 4 mm <sup>2</sup>  6 mm <sup>2</sup>	 4 mm <sup>2</sup>  6 mm <sup>2</sup>

your application, begin with your preferred connector

					
First generation of lever connectors (e.g. WAGO 222 or similar)			Flat lever connectors (e.g. WAGO 221 type or similar)		
2x	3x	5x	2x	3x	5x
					
 + 			 + 		
 +  + 	 + 		 +  + 	 + 	
					
 + 					
 + 			 + 		
 +  + 					





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# GEL CONNECTION

SMALL WATERPROOF ACCESSORIES FOR BIG INSTALLATIONS

**IPX8**  
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**IMQ**



**Ray  
tech®**

CABLE ACCESSORIES COMPANY



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