OHUG

The power behind electricity

OHUG Product Catalogue | Edition 01

Section 02

Insulating Gels, Rubbers & Resins

Happy

The revolutionary mini accessories with 3 entrances, prefilled 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 by making possible triple configurations 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 mm²
> Unlimited shelf life
> Small compact and robust
> Halogen free
> UV resistant

Electrical performance:
CEI EN 50393 as applicable (testing under water head of the accessory installed in a box)
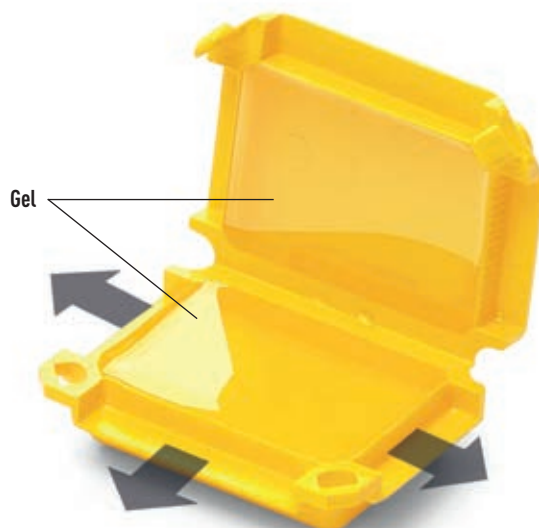
Gel: UL 94-HB

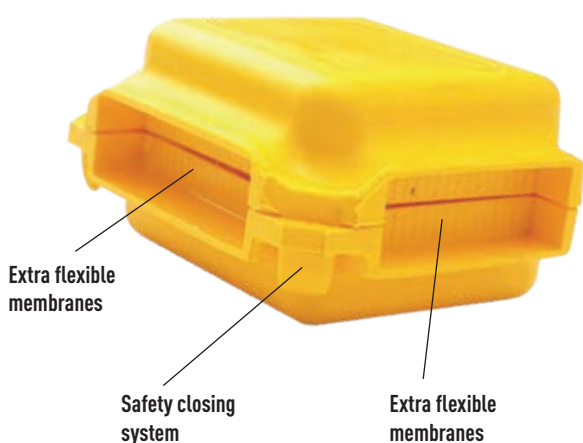**Operating Temp:** 90˚C

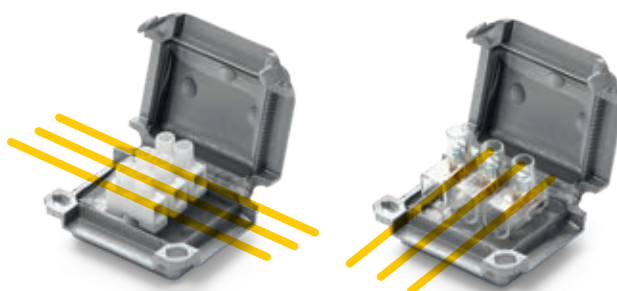**Installation temperature:** -40°C / +50°C

Fully submersible

Can be used underground

IPX8 OFFICIALLY TESTED | IMQ

Gel

Extra flexible membranes

Safety closing system

Extra flexible membranes

Configuration examples

Happy 0

Product	Pieces	Colour	Description	A x B x C (mm)
Happy 0	x 4	●	Blister	41 x 28 x 19
Happy 0 Box12	x 12	○	Box	41 x 28 x 19

Ideal for (or similar)

2x 2.5 mm2	2x 1.5 mm2	2x 2.5 mm2	3x 2.5 mm2	2x 4 mm2	3x 4 mm2

Happy 1

Product	Pieces	Colour	Description	A x B x C (mm)
Happy 1	x 2	●	Blister	45 x 37 x 24
Happy 1 Box10	x 10	○	Box	45 x 37 x 24

Ideal for (or similar)

3x 2.5 mm²	3x 2.5 mm²	3x 2.5 mm²	2x + 2x 2.5 mm²	5x 2.5 mm²	3x 4 mm²	2x + 2x 4 mm²	5x 4 mm²

Happy 2

Product	Pieces	Colour	Description	A x B x C (mm)
Happy 2	x 1	●	Blister	53 x 39 x 24
Happy 2 Box7	x 7	○	Box	53 x 39 x 24

Ideal for (or similar)

3x 4 mm²	3x 4 mm²	2x + 2x + 2x 2.5 mm²	2x + 2x + 2x 4 mm²
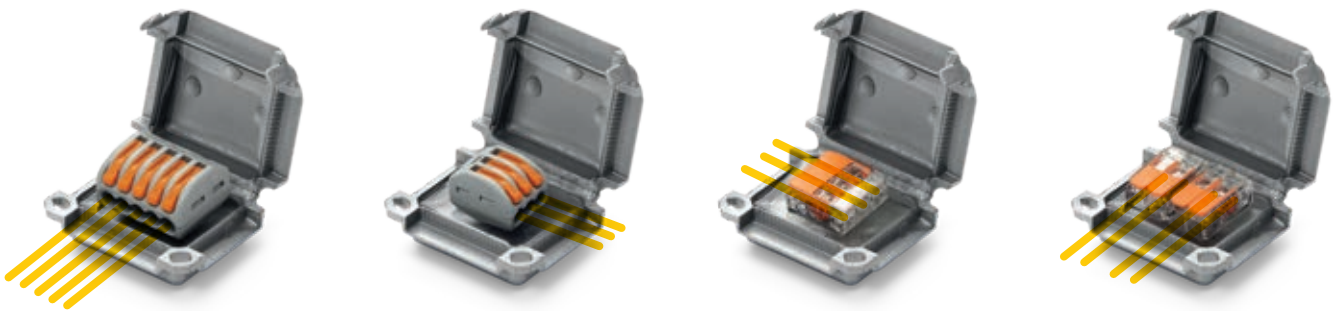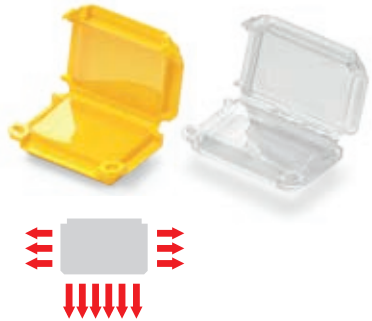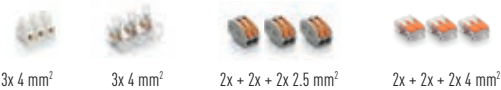
Happy Joints

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
> Unlimited shelf life
> Can energise immediately
> For straight and branch connections
> For rigid or flexible insulated wires up to 4 mm²
> Up to 5 conductors on one phase or up
>   to two conductors on two or three phases
> Halogen free
> UV resistant

Electrical performance:
CEI EN 50393 as applicable (testing under water head of the accessory installed in a box)
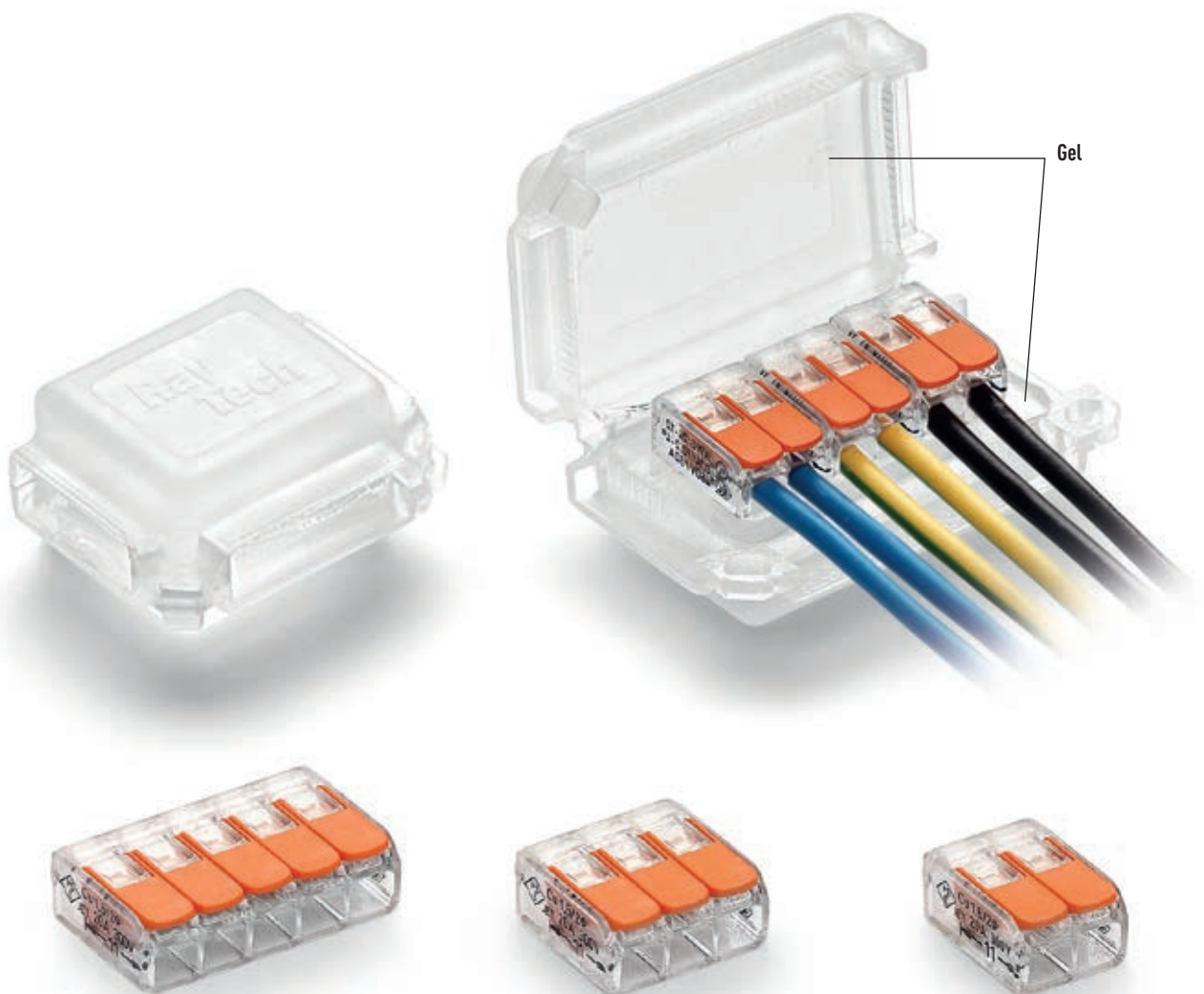
Gel: UL 94-HB

Operating Temp: 90°C

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

Fully submersible

Can be used underground

IPX8 OFFICIALLY TESTED | IMQ

Gel

Happy Joint 3

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

With three connectors included for each Happy

Insulating Gels, Rubbers and Resins

Section 02.

0800 GET OHUG

Gel Box Line

Pre-filled gel accessories for sealing, protecting and making safe electrical connections. A simple way to bring indoor connectors outdoors

> Suitable for domestic applications
> For civil and industrial connections
> Also for submersible use
> Non-toxic with unlimited shelf life
> Versatile and ready to use
> Designed with dimensions suitable for the most commonly used connectors
> Halogen free
> UV resistant

Electrical performance:
CEI EN 50393 as applicable (testing under water head of the accessory installed in a box)

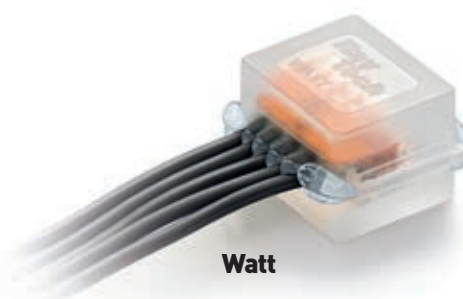**Gel:** UL 94-HB

Operating Temp: 90°C

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

Fully submersible

Can be used underground

IPX8 OFFICIALLY TESTED | **IMQ**

Watt

Isaac

Product	Pieces	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	30 x 27 x 23
Isaac 4 MP	x 50 pcs	Multipack	30 x 27 x 23

Ideal for (or similar)

| 2x 2.5 mm² | 2x 2.5 mm² | 3x 2.5 mm² | 2x 4 mm² | 3x 4 mm² |

Pascal

Product	Pieces	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	36 x 37 x 26
Pascal 6 MP	x 25 pcs	Multipack	36 x 37 x 26

Ideal for (or similar)

| 2x 4 mm² | 3x 4 mm² | 3x 1.5 mm² | 2x + 2x 2.5 mm² | 5x 2.5 mm² |

Watt

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

Ideal for (or similar)

3x 2.5 mm²	2x + 2x 2.5 mm²	5x 2.5 mm²	2x +2x 4 mm²	5x 4 mm²

Joule

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

Ideal for (or similar)

2x + 2x + 2x 2.5 mm²	2x + 2x + 2x 4 mm²

Kelvin

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

Ideal for (or similar)

3x 6 mm²	3x 6 mm²

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 mm² cables or 3 insulated wires
> For civil and industrial connections
> Suitable for domestic applications
> Non-toxic with unlimited shelf life
> Halogen free
> UV resistant

Electrical performance:
CEI EN 50393 with connectors complying with EN 61238-1 (with testing under water head and water between the cable cores) Class 2 in accordance with CEI 64-8.

Gel: UL 94-HB

Operating Temp: 90˚C

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

IPX8 OFFICIALLY TESTED | **IMQ**

OHM & BAR

Product	Housed connectors type	Pieces/ Pack	Package type	Dimensions A x B x C (mm)
OHM	2 from 4 mm²	1	Blister	61 x 35 x 28
OHMp11	2 from 4 mm²	11	Box	61 x 35 x 28
BAR	3 from 4 mm²/6 mm²	1	Blister	63 x 41 x 28
BARp9	3 from 4 mm²/6 mm²	9	Box	63 x 41 x 28

Mammut Gel Cover

Product	Housed connectors type	Pieces/ Pack	Package type	Dimensions A x B x C (mm)
Gel Cover 4	2 from 4 mm²	1	Blister	61 x 35 x 28
Mammut Gel Cover	2 from 4 mm²	8	Box	61 x 35 x 28
Gel Cover 6	3 from 4 mm²/6 mm²	1	Blister	63 x 41 x 28
Mammut Gel Cover 6	3 from 4 mm²/6 mm²	6	Box	63 x 41 x 28

Nano Joint

Pre-filled gel accessories to seal, protect and make safe electrical connections. Includes 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 - 4 mm^2
> For 1, 2 and 3 core connections
> Up to 5 conductors on one phase or up to 2 conductors on two or three phase
> Unlimited shelf life
> Halogen free
> UV resistant

Electrical performance:
CEI EN 50393 as applicable (testing under water head of the accessory installed in a box)

Gel: UL 94-HB

Operating Temp: 90°C

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

Fully submersible
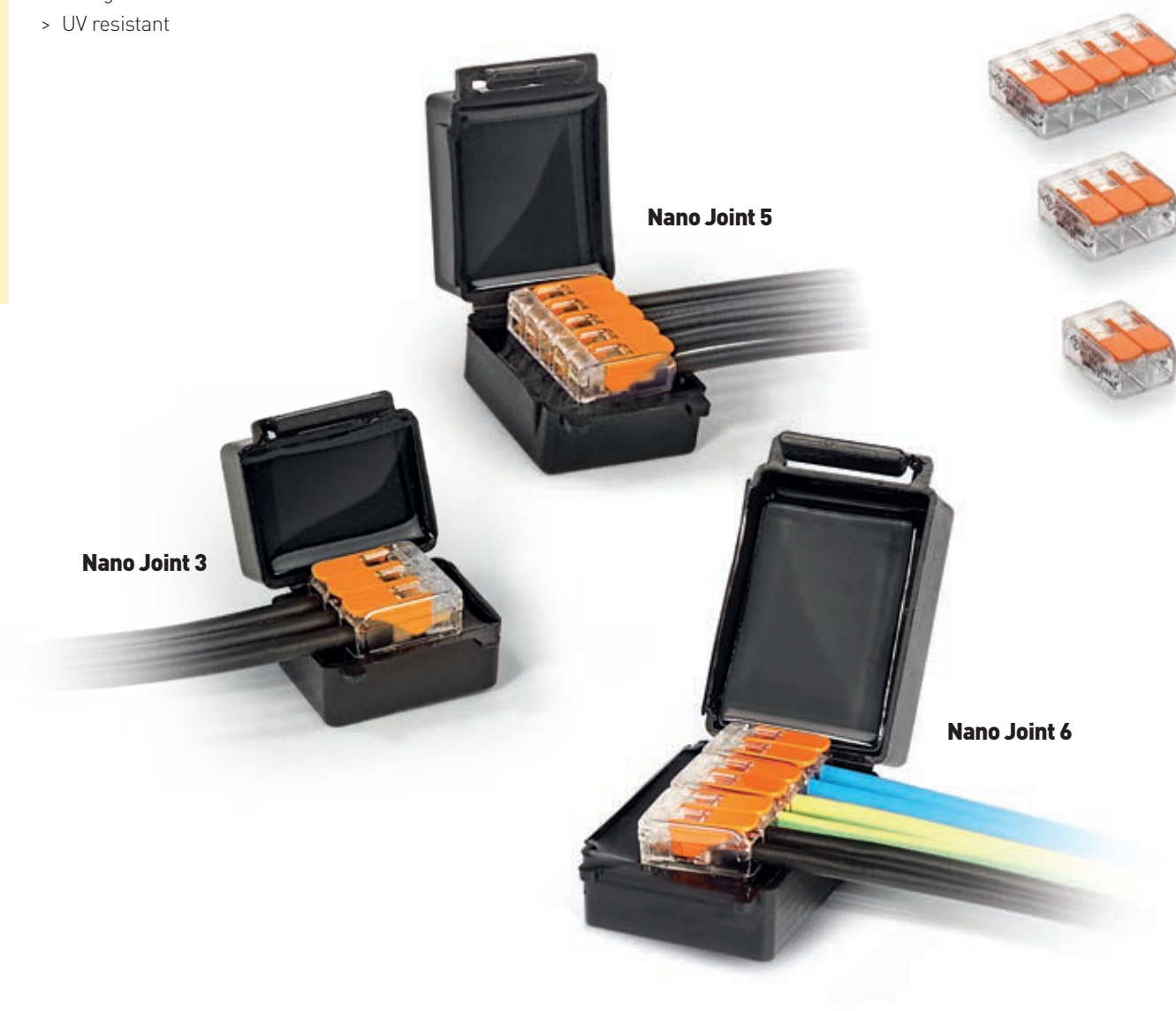
Can be used underground

IPX8 OFFICIALLY TESTED | **IMQ**

Nano Joint 5

Nano Joint 3

Nano Joint 6

Nano 3

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

With three connectors
included for each Nano Joint

Insulating Gels,
Rubbers and Resins

Section 02.

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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 - 4 mm^2
> For 1, 2 or 3 core connections
> Unlimited shelf life
> Halogen free
> UV resistant

Electrical performance:
CEI EN 50393 as applicable (testing under water head of the accessory installed in a box)

Gel: UL 94-HB

Operating Temp: 90°C

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

Fully submersible

Can be used underground

IPX8 OFFICIALLY TESTED | IMQ

Nano for 4

Nano Mam 4

Kit with end connectors/ terminal blocks

Kit with terminal blocks

Nano for 2,5

Nano Mam 2,5

Nano Mam 2,5

| Product | Formation and wires cross section | | Pieces/ Pack | A x B x C (mm) |
	(Max N° x mm2)	Combination		
Nano Mam 2,5	3 x 1 - 2,5	3 through	2 pcs/Blister	36 x 27 x 26

With one connector included for each Nano Mam

Nano Mam 4

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

With one connector included for each Nano 4

Nano For 4

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

With one connector included for each Nano 4

Insulating Gels, Rubbers and Resins

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Selection Chart

Gel Connection		Terminal blocks (chocolate block type)		End connectors/ terminal blocks
		2x	3x	3x
Revolution	**HAPPY 0** 41 x 28 x 19 mm	2,5 mm²		
	HAPPY 1 45 x 37 x 24 mm	2,5 mm²	2,5 mm²	2,5 mm²
	HAPPY 2 53 x 39 x 24 mm		4 mm²	4 mm²
Classic Gel Box Line	**ISAAC** 30 x 27 x 23 mm	2,5 mm²		
	PASCAL 36 x 37 x 26 mm	4 mm²	4 mm²	1,5 mm²
	WATT 30 x 42 x 26 mm			2,5 mm²
	JOULE 33 x 52 x 26 mm			4 mm²
	KELVIN 52 x 53 x 29 mm		4 mm² 6 mm²	4 mm² 6 mm²

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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
			4-6 mm²	4-6 mm²	
			4-6 mm²	4-6 mm²	4 mm²
			4-6 mm²	4-6 mm²	6 mm²
			4 mm²	4 mm²	
			4 mm²		4 mm²
			4 mm²		4 mm²

Bravo

The first Gel Box with integrated connectors.

> Ready to use, quick, re-enterable
> For rigid or flexible insulated wires from 1 - 6 mm^2
> Immediately energizable
> For straight & branch connections
> For 1 or 3 core connections
> Small, compact and transparent
> Unlimited shelf life
> Halogen free and UV resistant

Electrical performance:
CEI EN 50393 as applicable (testing under water head of the accessory installed in a box)

Gel: UL 94-HB

Operating Voltage: 0,6 / 1kV

Operating Temp: 90°C

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

Fully submersible

Can be used underground

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Bravo 3-6

Bravo 1-6
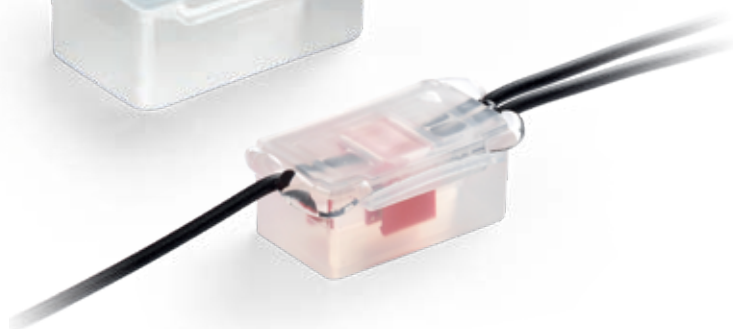
Mini Bravo

Mini Bravo 1   **Mini Bravo 2**   **Mini Bravo 3**

Bravo - Self-locking connection block.
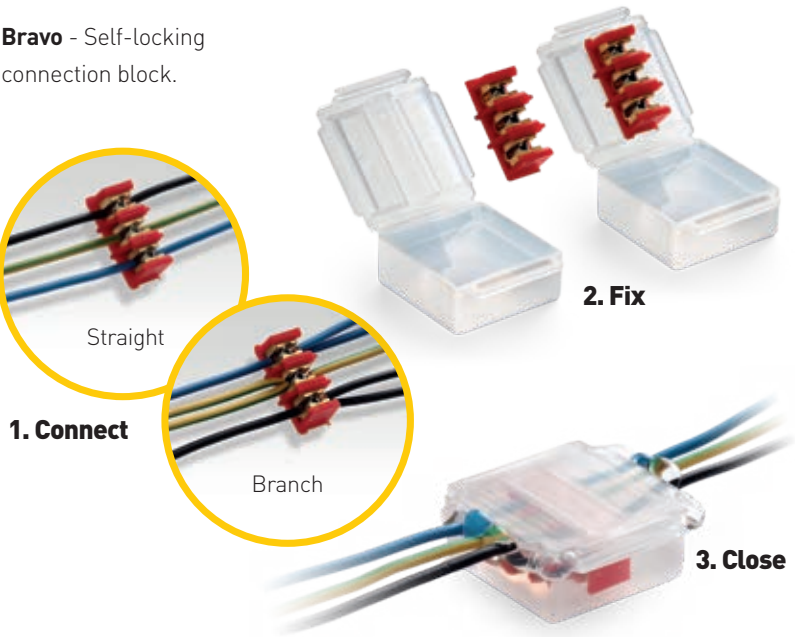
Straight

1. Connect

Branch

2. Fix

3. Close

Bravo

| Product | Formation and wires cross section | | Pieces/ Pack | 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	2 x 1 - 6 3 x 1 - 6	2 x 1 - 6 3 x 1 - 6	1 pcs/Blister	53 x 49 x 22

Mini Bravo

| Product | Formation and wires cross section | | Pieces/ Pack | A x B x C (mm) |
	Straight or through (N°x mm2)	Branch (N°x mm2)		
Mini Bravo 1	1 x 1 - 4	1 x 1 - 4	3 pcs/Blister	41 x 28 x 19
Mini Bravo 2	2 x 1 - 4	2 x 1 - 4	1 pcs/Blister	45 x 37 x 24
Mini Bravo 3	3 x 1 - 4	3 x 1 - 4	1 pcs/Blister	53 x 39 x 24

Little Joint L

IP68 and IP69K, gel pre-filled micro joint, space-saver complete with connectors and with minimal aesthetic impact.

> Equipped with cable glands
> Complete with screw connectors
> Pre-filled with non-toxic, non-classified gel
> Very compact and ready to use
> Re-enterable
> Halogen free & UV resistant

Electrical performance:
CEI EN 50393 as applicable

Gel: UL 94-HB

Operating Temp: 90˚C

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

Fully submersible

Can be used underground

IP68 OFFICIALLY TESTED | IMQ

IP69K OFFICIALLY TESTED

Gel

Cable glands
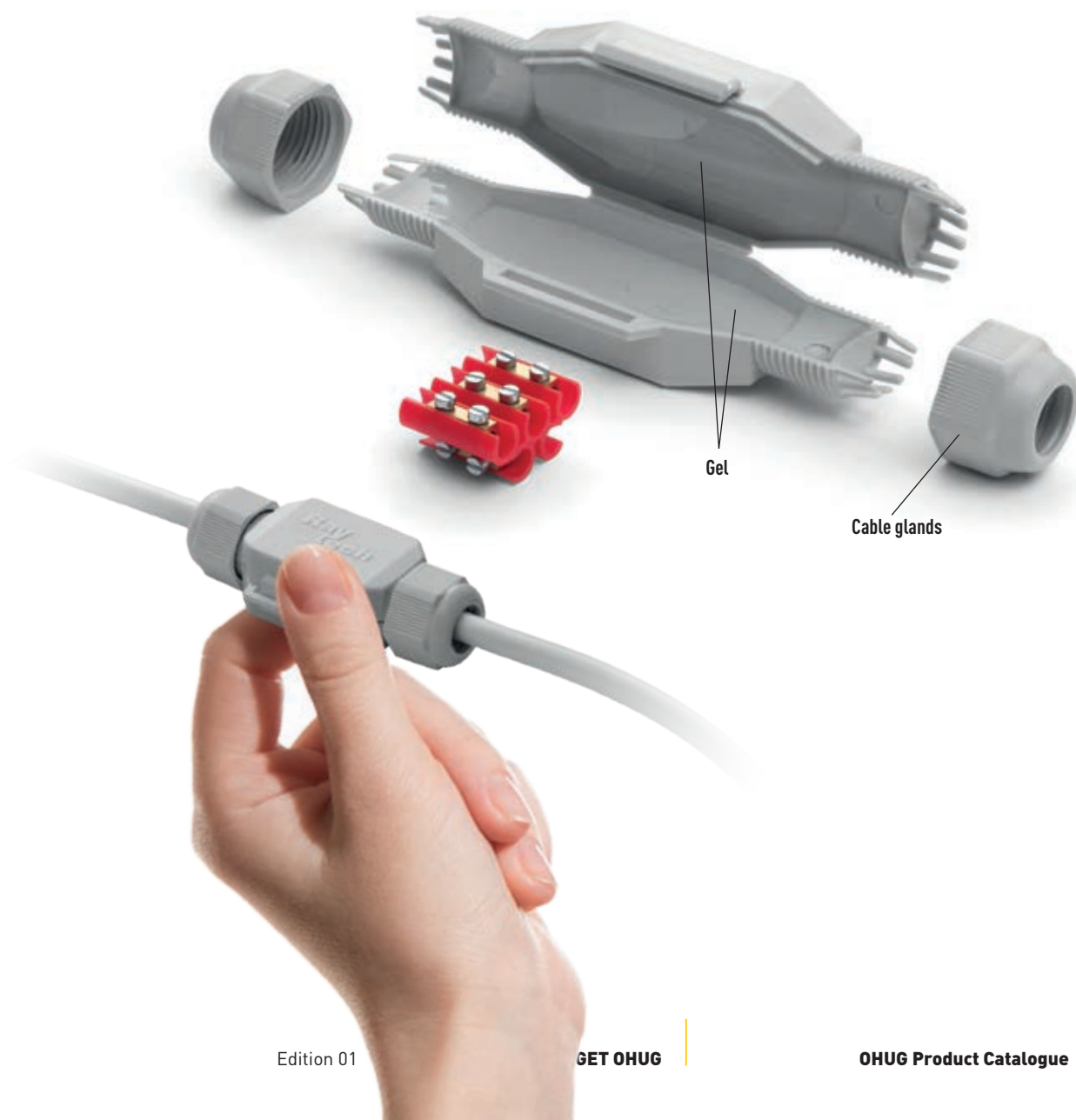
For use in traps, in lampholders for LED spotlights, especially in the presence of water and moisture, thanks to its very small size.

LittleJoint L

Product	Colour	Connector	Cable formation max (N°x mm2)	Ø cables min - max (mm)	Pieces/ Pack	A x B x C (mm)
Barney	○				1/Blister	
Barney - N	●		2 x 2,5	6 -10	1/Blister	75 x 28 x 19
Barney MP	○				10/Multipack	
Fred	○				1/Blister	
Fred - N	●		3 x 2,5	8 -13	1/Blister	80 x 36 x 23
Fred MP	○				10/Multipack	
Fred/4	○		3 x 4	8 -13	1/Blister	80 x 36 x 23
Fred/4 - N	●				1/Blister	
Dino	○		4 x 4	10 -16	1/Blister	125 x 43 x 35
Dino - N	●				1/Blister	
Betty/4	○		5 x 4	10 -16	1/Blister	145 x 46 x 35
Betty/4 - N	●				1/Blister	
Betty/6	○		5 x 6	14 -19	1/Blister	145 x 46 x 35
Betty/6 - N	●				1/Blister	
Tom	○		5 x 16	19 -23	1/Blister	180 x 53 x 42
Tom - N	●				1/Blister	

Little Joint Y

Barney Y and Fred Y micro joints for branch connections complete with terminal block.

Extremely compact and space-saving, pre-filled with soft, highly conformable gel. Equipped with integrated cable glands for IP68 and IP69K degree of ingress protection and cable retention.

> Equipped with 3 cable glands
> Complete with terminal boards with screw connectors
> Pre-filled with classified non-toxic gel
> Extremely compact and ready to install
> Re-enterable
> Halogen Free & UV resistant
> Ideal for branch connections in lighting systems for gardens, steps and stairways, pedestrian crossings, etc.

Electrical performance:
CEI EN 50393 as applicable

Gel: UL 94-HB

Operating Temp: 90˚C

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

Fully submersible

Can be used underground

IP68 OFFICIALLY TESTED | IMQ

IP69K OFFICIALLY TESTED

Fred Y

Barney Y

Gel

Cable glands
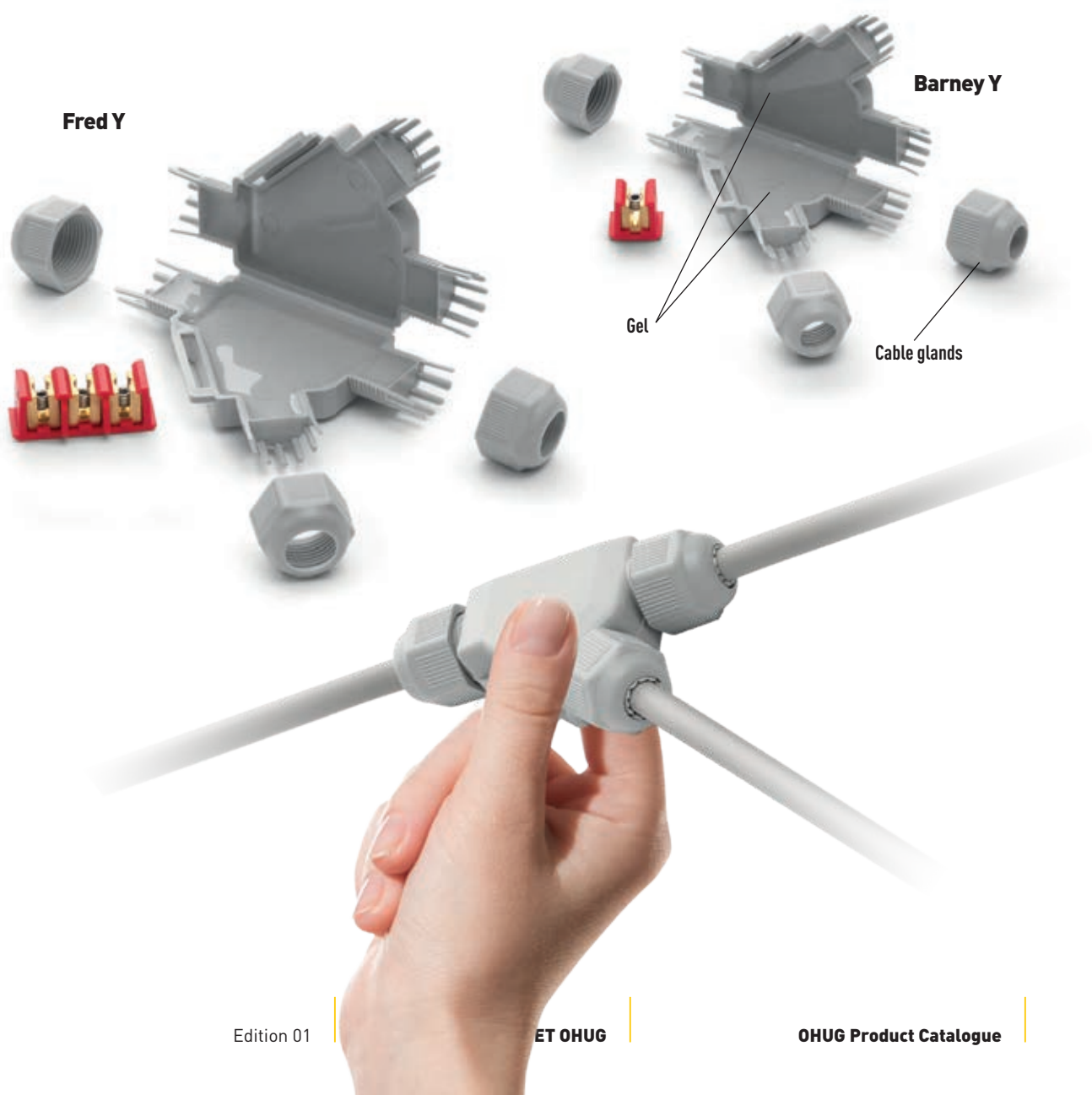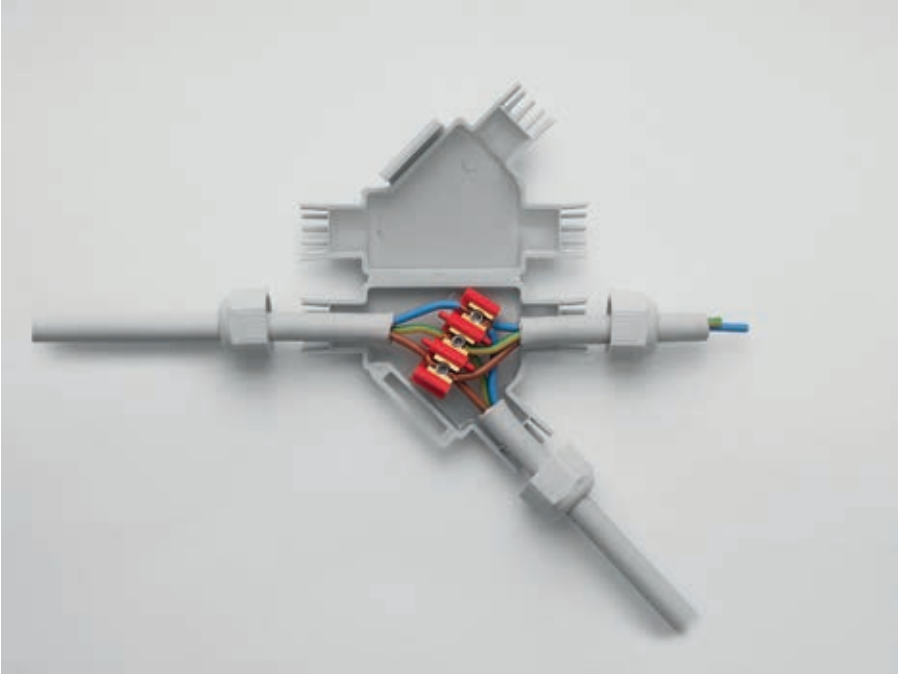
The ideal accessory for branch connections from a through cable to light fittings and spotlights. Suitable in applications where there is presence of water and moisture.

LittleJoint Y

Product	Colour	Connector	Cable formation max (N° x mm2)		Ø cables min - max	Pieces/ Pack	A x B x C (mm)
			Through	Branch	(mm)		
Barney Y	●		1 x 4 1 x 2,5	1 x 1,5 1 x 2,5	6 -10	1/Blister	85 x 55 x 22
Barney Y - N	●					1/Blister	
Fred Y	●		3 x 4 3 x 2,5	3 x 1,5 3 x 2,5	8 -13	1/Blister	110 x 72 x 25
Fred Y - N	●					1/Blister	

Little Joint X

This 4 entrance micro joint for multiple branches is both IP68 and IP69K rated. The Little Joint X is pre-filled with conformable gel and its compact size makes it ideal for many applications.

> Equipped with cable glands
> Complete with 3-screw connector system
> Pre-filled with non-toxic gel
> Re-enterable
> Provided with holes for wall installation
> Halogen free & UV resistant
> Lets you create multiple connection options

Electrical performance:
CEI EN 50393 as applicable

Gel: UL 94-HB

Operating Temp: 90˚C

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

Fully submersible

Can be used underground

IP68 OFFICIALLY TESTED | **IMQ**

IP69K OFFICIALLY TESTED

Cable glands

Gel
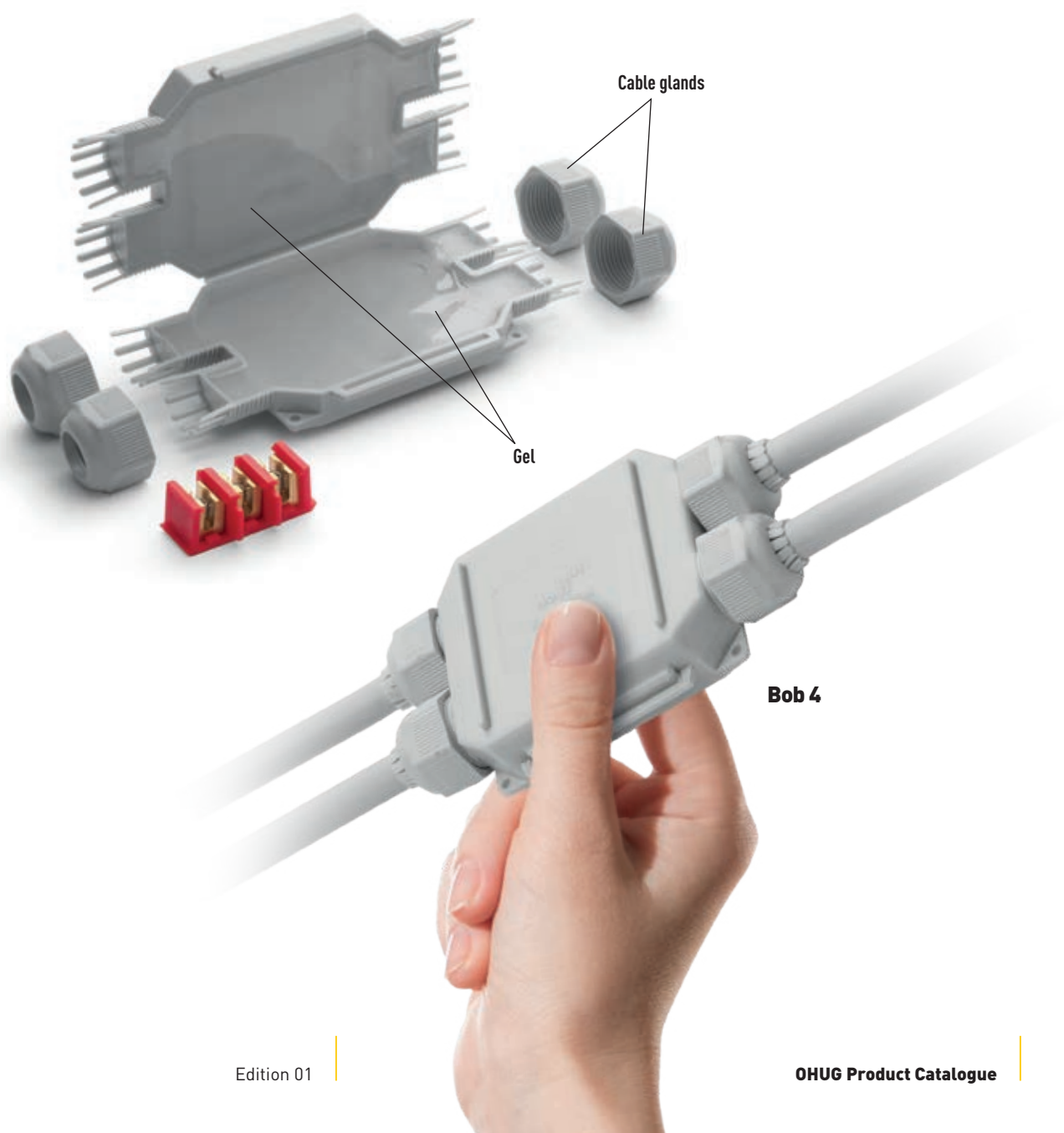
Bob 4

Some installation possibilities for Bob 4

Parallel branch system with 3 three-core cables up to 3 x 4 mm²
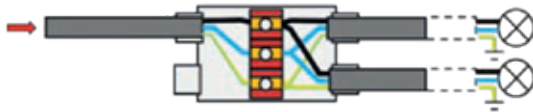
Parallel branch system with 4 three-core cables up to 3 x 4 mm²

Parallel 5-lamp connection system
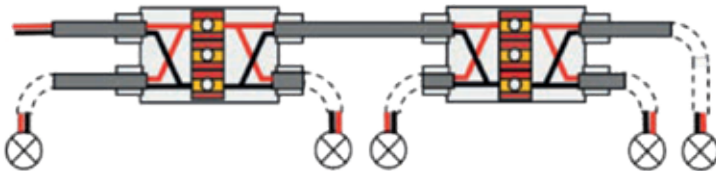
Can be installed with Mammut type connector (not included)

3-LED spotlight in-series system
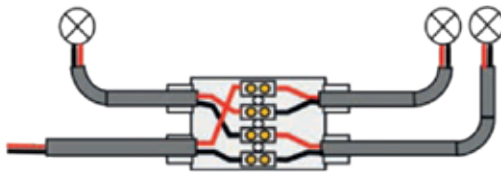
3-LED RGB spotlight parallel system with four-core cables
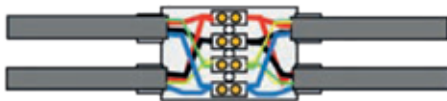
LittleJoint X

Product	Colour	Connector	Cable formation max (N° x mm2)		Ø cables min - max			A x B x C (mm)
			Through	Branch	(mm)	Pieces/ Pack		
Bob 3	●		1 cable 3 x 4 3 x 2,5	2 cables 3 x 4	8 -13	1/Blister		105 x 80 x 25
Bob 3 - N	●			2 cables 3 x 2,5		1/Blister		
Bob 4	●		1 cable 3 x 4 3 x 2,5	2 cables 3 x 4	8 -13	1/Blister		105 x 65 x 25
Bob 4 - N	●			3 cables 3 x 2,5		1/Blister		

Ready Box IP68

The Rapid Joint IP68 has been tested to rigorous International Standards, validating its outstanding performance characteristics. It has unlimited shelf life and is chemically inert, it is completely safe to use. Re-enterable and flame retardant for cables at 90°C, this is a robust jointing solution.

> They can be installed in all environmental conditions
> Suitable for wet or flooded environments
> Re-enterable
> Pre-filled with gel. Non-toxic and non-classified as hazardous under CLP
> Pre-threaded entries for cable gland mounting
> Snap shut closure, no screws require
> Wall or external ceiling fixing system
> Halogen free & UV resistant
> Unlimited shelf life

Electrical performance:
CEI EN 50393 as applicable

Gel: UL 94-HB

Halogen free: according to CEI EN 50267 2-2

Self-extinguishing and resistant to abnormal heat and fire: Glow wire test at +960°C according to EN 60695-2-11

Operating Temp: 90˚C

Installation temperature: -60°C / +200°C

IP68 OFFICIALLY TESTED | **IMQ**

IP69K OFFICIALLY TESTED

Pre-filled Gel Joints

Ready Box IP68 - 120

Installation with external cables

Ready Box IP68 - 90

Installation with cable gland duct
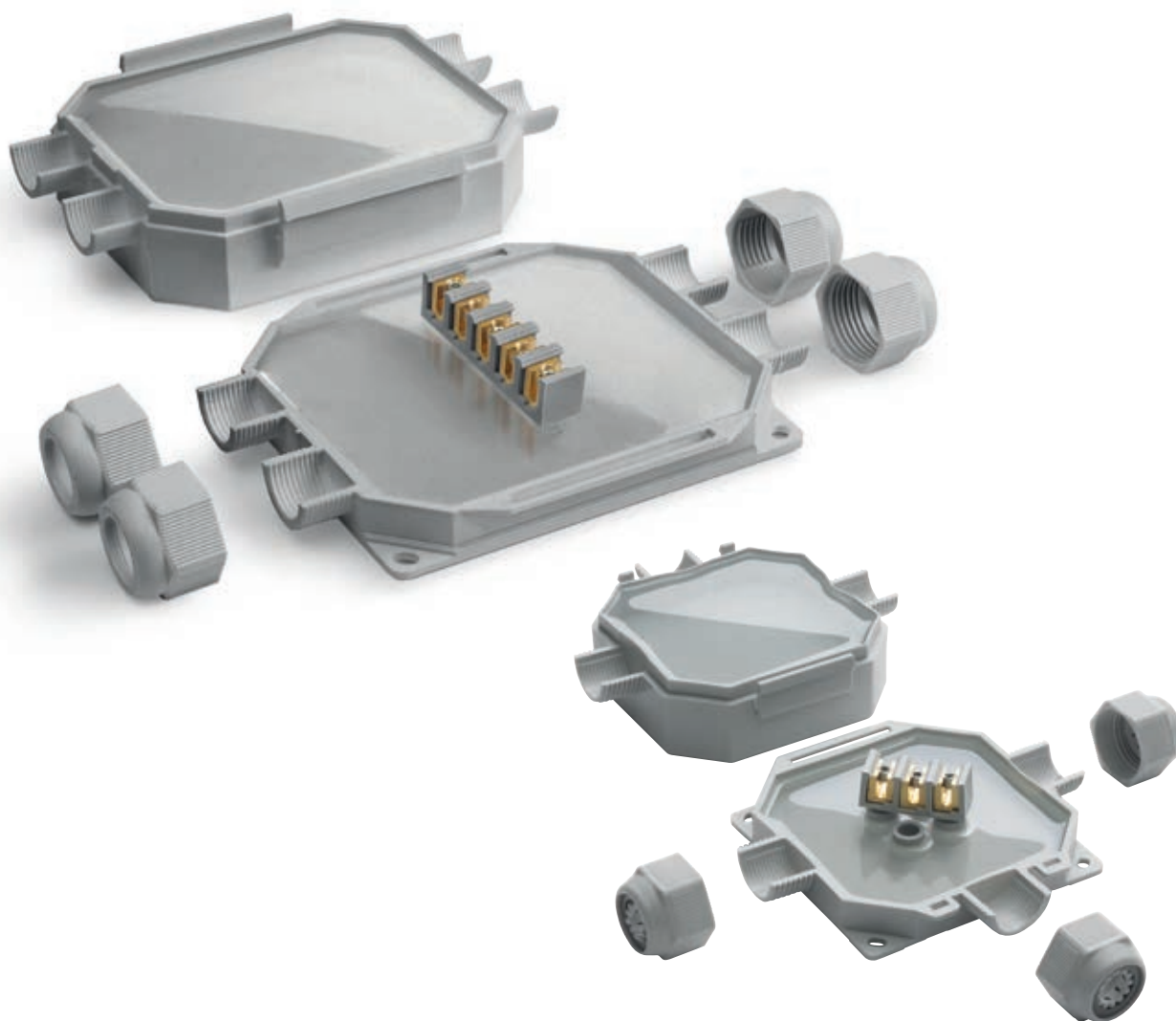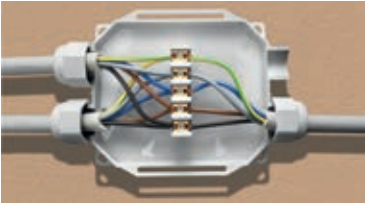
Thanks to its innovative design, unlike a standard box, there is no need to break through the walls of the box to insert the cable.

Also suitable for extra-flat lever connectors.

Also suitable for screw terminals.

No additional accessories are required as it is equipped with connection block and glands M25 x 1,5

Gel

Screwless closure

Pre-threaded entries

Cable glands M25 x 1,5

Hole for wall mounting
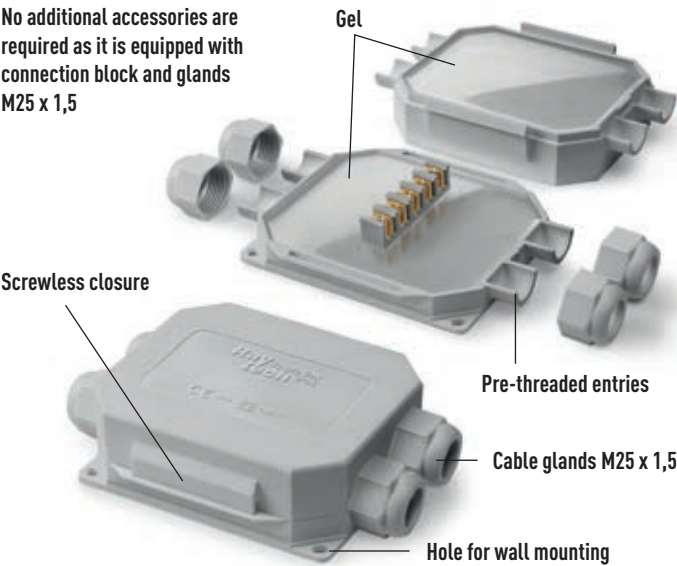
Ready Box 120

Ready Box 90

			Ø entrances with cable glands		Ø tubes (mm)		
Product	Colour	Connector	min (mm)	max (mm)	(mm)	A x B x C (mm)	
Ready Box IP68 90	●	3	6	18	16 / 20 / 32	90 x 90 x 45	
Ready Box IP68 90/N	●						
Ready Box IP68 120	●	4	6	18	16 / 20 / 32	120 x 100 x 45	
Ready Box IP68 120/N	●						

Rapid Joint IP68

Radial closing pre-filled gel joint for extruded insulation cables up to 1 kV.

Primary insulation, consisting of a cross-linked polymer gel, and the exceptionally robust insulating plastic casing render Class 2 joints in accordance with the definitions contained in standard CEI 64-8. The joint has been tested in accordance with the main international specifications, with repeated flexing and torsion tests and immersion in water, and has been declared as conforming to the mechanical, electrical and sealing specifications required for plastic cable accessories. The joint and its components have an unlimited shelf life, are chemically inert and therefore completely safe. Conductor connections are re-enterable even after long periods of operation. Packaged with self-extinguishing material, flame retardant, for cables at 90°C working temperature. The radial closing system facilitates joint application, making them re-enterable only by means of a tool.

> For in line connections
> For multi core cables of up to 5 cores
> With suitable spacers
> For all types of application, including submersible
> Wide range of cable formations
> Re-enterable only by means of a tool
> Suitable for 3 core crossing
> Non-toxic, with no expiry date

Electrical performance:
CEI EN 50393 (with testing under water head and water between the cable cores) Class 2 in accordance with CEI 64-8.

No flame propagation:
CEI 20-35 • IEC 60332-1 • HD405-1 (as applicable) Low smoke and toxic and corrosive gas emissions

Gel: UL 94-HB

Casing mix: UL 94-V2

Degree of protection: IP68

Operating Temp: 90°C
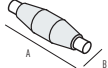
Installation temperature: -40°C / +50°C

IP68 OFFICIALLY TESTED | IMQ

IP69K OFFICIALLY TESTED

Gel

"Self-centering" and "self-screwing" locking device

5 sector spacers

Cable glands complete with gasket
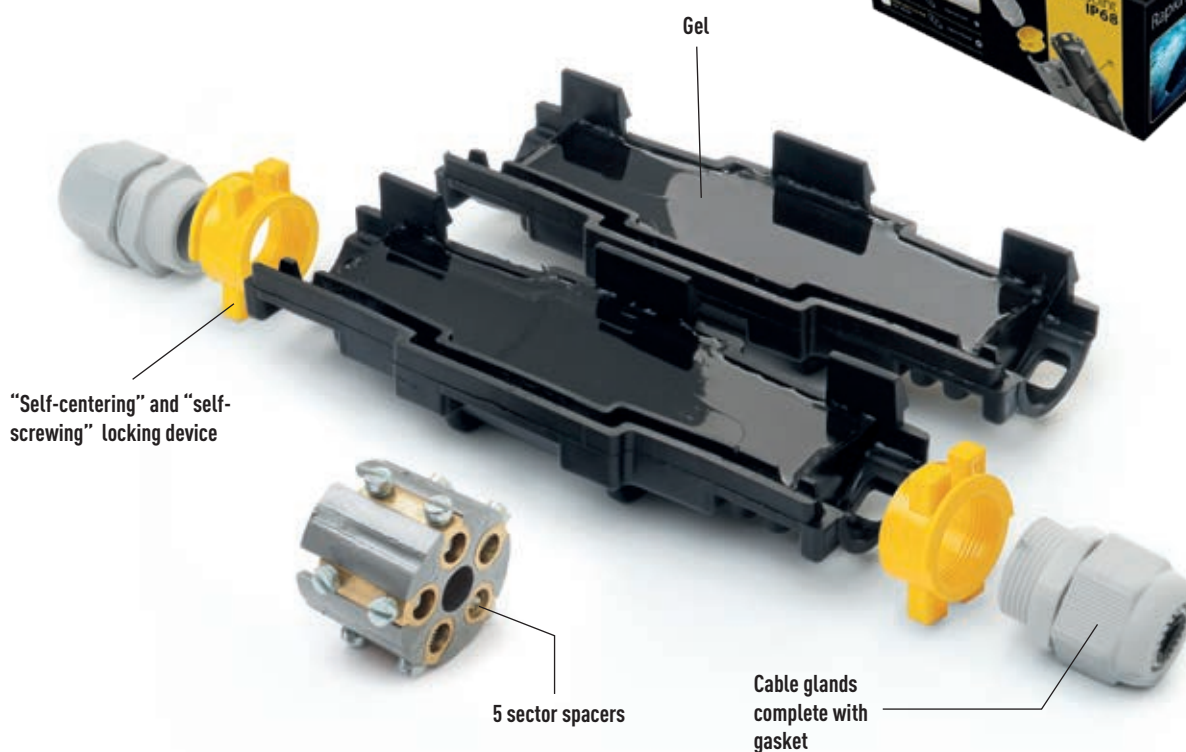
Product Code	Formation n°	Configuration IP68			Configuration IPX8		
		Section (mm²)	Ø cable (mm)	A x B (mm)	Section (mm²)	Ø cable (mm)	A x B (mm)
Rapid Joint RJL1.5-IP68	•	4 - 25	8 - 13	155 x 55	1,5 - 50	20,5	105 x 55
	••	1,5 - 4			1,5 - 6		
	⊕	1,5 - 2,5			1,5 - 6		
	⊕	1,5			1,5 - 6		
	⊕	1,5			1,5 - 6		
Rapid Joint RJL6-IP68	•	25 - 70	12 - 18	245 x 60	25 - 150	24	180 x 60
	••	2,5 - 6			2,5 - 10		
	⊕	2,5 - 6			2,5 - 10		
	⊕	2,5 - 6			2,5 - 10		
	⊕	2,5 - 6			2,5 - 10		
Rapid Joint RJL10-IP68	•	70 - 95	16 - 20	275 x 65	120 - 240	31	210 x 65
	••	10			10 - 25		
	⊕	10			10 - 25		
	⊕	10			10 - 25		
	⊕	10			10 - 25		
Rapid Joint RJL25-IP68	•	210 - 240	21 - 28	410 x 100	120 - 240	42	320 x 100
	••	25			10 - 50		
	⊕	16 - 25			10 - 50		
	⊕	16 - 25			10 - 50		

For single core cable: do not install the separator with screw connectors and connect with crimp connector.

IPX8

- Protected from permanent immersion in water.

IP68

- Totally protected against dust and solid objects over 1 mm (tools, wires, and small wires).

- Protected from permanent immersion in water.

IP69K

- Totally protected against dust and solid objects over 1 mm (tools, wires, and small wires).

- Protected against close-range high pressure, high temperature spray downs.

Mini Rapid Joint IP68

IP68 and IP69K joints for straight and branch connections, extremely compact and pre-filled with gel.

Due to its compact size, this joint is ideal for lighting systems in gardens, steps and pedestrian crossings, just to name a few. It is perfect for use in confined spaces thanks to its small size.

> Provided with 2 (straight joints) or 3 (branch joints) cable glands
> Complete with screw connectors
> Pre-filled with non-toxic gel
> Extremely compact and ready to install
> Re-enterable
> Halogen Free & UV resistant

Electrical performance:
CEI EN 50393 as applicable

Gel: UL 94-HB

Operating Temp: 90°C

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

Fully submersible

Can be used underground

IP68 OFFICIALLY TESTED | IMQ

IP69K OFFICIALLY TESTED

Rapidino L4

Rapidino Y3

Mini Rapid Joint IP68 L

Product	Formation	Connector	Cable formation max (N˚x mm²)	Ø cable min - max (mm)	Pieces / Pack	A x B x C (mm)
Rapidino IP68 L2			2 x 2,5	6 - 10	3 pcs/box	75 x 28 x 19
Rapidino IP68 L3			3 x 2,5	8 - 13	3 pcs/box	80 x 36 x 23
Rapidino IP68 L4			4 x 4	10 - 16	1 pcs/box	125 x 43 x 35

Mini Rapid Joint IP68 Y

Product	Formation	Connector	Cable formation max (N˚x mm²) Through	Cable formation max (N˚x mm²) Branch	Ø cable min - max (mm)	Pieces / Pack	A x B x C (mm)
Rapidino IP68 Y1			1 x 4 1 x 2,5	1 x 1,5 1 x 2,5	6 - 10	2 pcs/box	85 x 55 x 22
Rapidino IP68 Y3			3 x 4 3 x 2,5	3 x 1,5 3 x 2,5	8 - 13	1 pcs/box	110 x 72 x 25

King Joint

Range of fast gel pre-filled straight or branch type joints for 0.6/1 kV multi core cables of up to 5 conductors.

The King Joint range has been rigorously tested to International Standards, giving you confidence in their overall performance. It has unlimited shelf life and is chemically inert, it is completely safe to use. Re-enterable and flame retardant at 90°C, this is a versatile joint suitable to many applications.

> For multicore cables of up to 5 cores
> 5 sector spacers for proper centering of five-core connection
> Complete with screw connectors
> For straight and branch connections, including armoured cable
> For all types of application, including submersible
> Re-enterable and with unlimited shelf life
> Flame retardant
> Non toxic and safe

Electrical performance:
CEI EN 50393 (with testing under water head and water between the cable cores) Class 2 in accordance with CEI 64-8.

No flame propagation:
CEI 20-35 • IEC 60332-1 HD405-1
(as applicable) Low smoke and toxic and corrosive gas emissions

Gel: UL 94-HB

Casing mix: UL 94-V2

Degree of protection: IPX8

Operating Temp: 90˚C

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

IPX8 OFFICIALLY TESTED | IMQ

King Joint Y

Gel

5 sector spacer
with Allen
connectors

King Joint L

Gel

Pre-filled joint

Pre-filled joint

Screw connectors

5 sector spacer

Gel
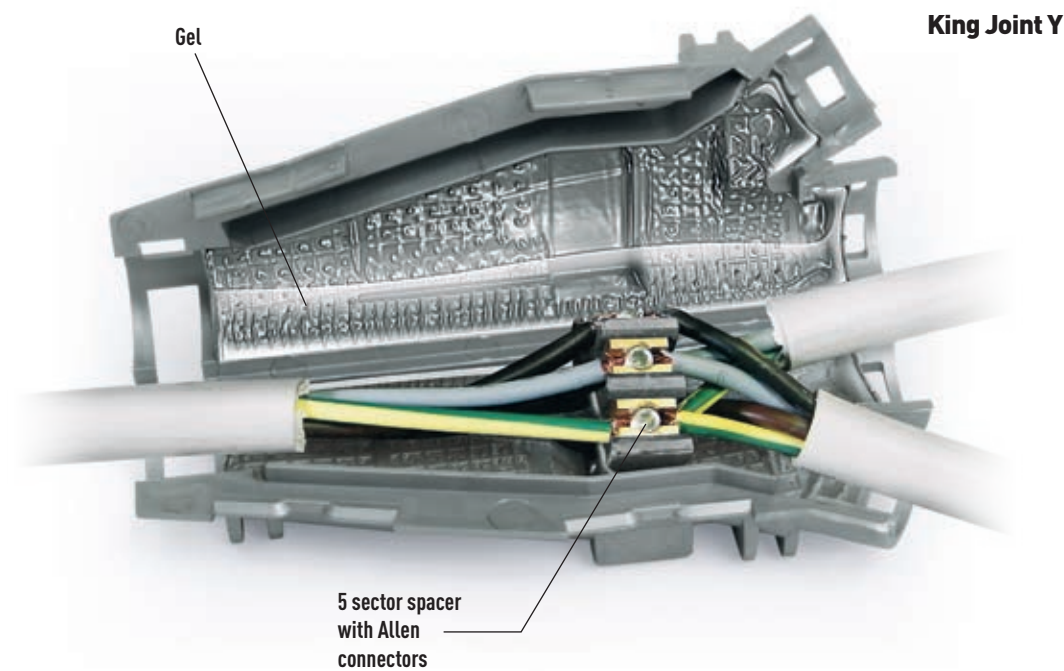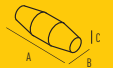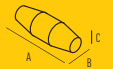
King Joint L

Straight joints, including armoured cable.

Product	LINE CONNECTIONS Cable formation and conductor cross sections (n° x mm2)	Ø max cables (mm)	Dimensions A x B x C (mm)
King Joint 0 Blister	2 x 1,5 - 6 3 x 1,5 - 6 4 x 1,5 - 6 5 x 1,5 - 6	20,5	105 x 55 x 55
King Joint 0 Box	2 x 1,5 - 6 3 x 1,5 - 6 4 x 1,5 - 6 5 x 1,5 - 6	20,5	105 x 55 x 55

Product	LINE CONNECTIONS Cable formation and conductor cross sections (n° x mm2)	Ø max cables (mm)	Dimensions A x B x C (mm)
King Joint L10 King Joint L10 - ARM	2 x 2,5 - 10 3 x 2,5 - 10 4 x 2,5 - 10 5 x 2,5 - 10	24	180 x 60 x 60

Product	LINE CONNECTIONS Cable formation and conductor cross sections (n° x mm2)	Ø max cables (mm)	Dimensions A x B x C (mm)
King Joint L25 King Joint L25 - ARM	2 x 10 - 25 3 x 10 - 25 4 x 10 - 25 5 x 10 - 25	31	210 x 65 x 65

ARM type joints complete with continuity device suitable for connection to armoured wire or steel tape cables.
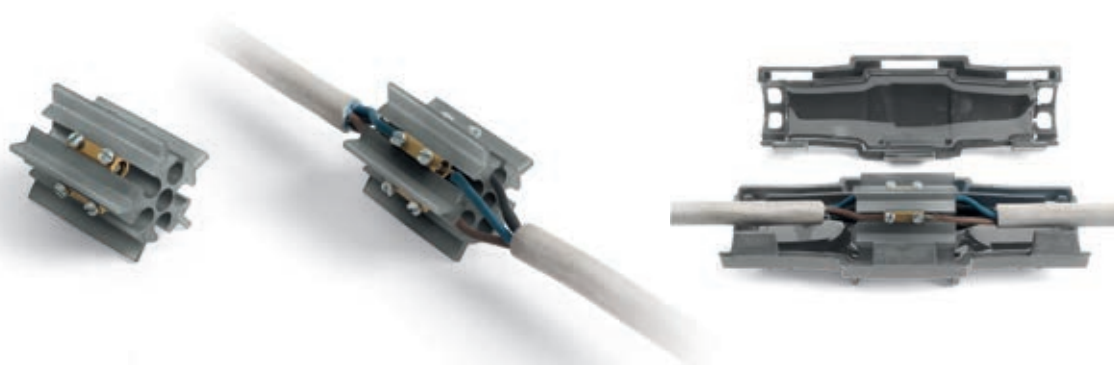
King Joint Y

Branch joints, including armoured cable.

Product	BRANCH CONNECTIONS Cable formation and conductor cross sections (n° x mm2)		Ø max cables (mm)		Dimensions A x B x C (mm)
	T	B	T	B	
King Joint Y6 King Joint Y6 - ARM	2 x 1,5 - 6 3 x 1,5 - 6 4 x 1,5 - 6 5 x 1,5 - 6	2 x 1,5 - 4 3 x 1,5 - 4 4 x 1,5 - 4 5 x 1,5 - 4	22,5	18,5	138 x 60 x 37

T: Through cable - **B**: Branch cable

Product	BRANCH CONNECTIONS Cable formation and conductor cross sections (n° x mm2)		Ø max cables (mm)		Dimensions A x B x C (mm)
	T	B	T	B	
King Joint Y16 King Joint Y16 - ARM	2 x 4 - 16 3 x 4 - 16 4 x 4 - 16* 5 x 4 - 16*	2 x 1,5 - 4 3 x 1,5 - 4 4 x 1,5 - 4 5 x 1,5 - 4	26	18,5	194 x 74 x 43

T: Through cable - **B**: Branch cable
* For armoured cables max conductor cross section 10 mm[2].

Product	BRANCH CONNECTIONS Cable formation and conductor cross sections (n° x mm2)		Ø max cables (mm)		Dimensions A x B x C (mm)
	T	B	T	B	
King Joint Y35 King Joint Y35 - ARM	2 x 10 - 35 3 x 10 - 35 4 x 10 - 35	2 x 1,5 - 6 3 x 1,5 - 6 4 x 1,5 - 6	36	26	290 x 105 x 51

T: Through cable - **B**: Branch cable
* For armoured cables max conductor cross section 10 mm[2].
ARM type joints complete with continuity device suitable for connection to armoured wire or steel tape cables.
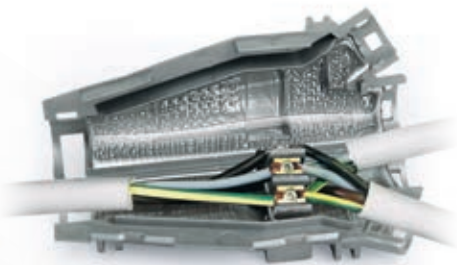
Rapid Joint

IPX8 straight joints for 0,6/1 kV extruded cable.

For COPPER cables		Cable formation and conductor cross sections (n° x mm^2)				With optical fibre separator	Dimensions A x B (mm)
Product	Code	1x	2x	3x	4x	4x	
Rapid Joint L6	RJL6	1,5 - 50	1,5 - 10	1,5 - 10	1,5 - 6	-	105 x 55
Rapid Joint L10	RJL10	2,5 - 150	2,5 - 25	2,5 - 16	2,5 - 16	-	180 x 60
Rapid Joint L25	RJL25	120 - 240	6 - 50	6 - 35	4 - 35	-	210 x 65
Rapid Joint L95	RJL95	185 - 400	35 - 95	25 - 70	25 - 70	16 - 50	320 x 100
For ALUMINIUM cables	**Code**	**1x**	**2x**	**3x**	**4x**	**4x**	**(mm)**
Rapid Joint L 25	RJL25	120 - 240	16 - 35	10 - 25	10 - 25	-	210 x 65
Rapid Joint L 95	RJL95	185 - 400	35 - 95	25 - 70	25 - 70	16 - 50	320 x 100

Electrical performance:
CEI EN 50393 with connectors complying with EN 61238-1 (with testing under water head and water between the cable cores) Class 2 in accordance with CEI 64-8.

Rapid Joint S/ARM
For screened or tape or wire armoured cables

For COPPER wire SCREENED cables	Cable formation and conductor cross sections (n° x mm^2)				With optical fibre separator	Dimensions A x B (mm)
Product	1x	2x	3x	4x	4x	
Rapid Joint L10-S	2,5 - 150	2,5 - 25	2,5 - 10	2,5 - 10	-	180 x 60
Rapid Joint L25-S	120 - 185	16 - 25	10 - 25	10 - 25	-	210 x 65
Rapid Joint L95-S	240 - 400	35 - 95	25 - 70	25 - 70	16 - 50	320 x 100
For copper tape ARMOURED cables	**2x**	**3x**	**4x**	**4x**	**(mm)**
Rapid Joint L 10-ARM	2,5 - 10	2,5 - 10	2,5 - 10	-	180 - 60
Rapid Joint L 25-ARM	16 - 25	10 - 25	10 - 25	-	210 x 65
Rapid Joint L 95-ARM	35 - 95	25 - 70	25 - 70	16 - 50	320 x 100

Joint supplied with armour continuity device.

Rapid Joint LS
For signalling and control cables

Product	Conductor scetions cross (mm^2)	Cable formation (n° conductors)										Dimensions A x B (mm)
		5x	7x	10x	12x	16x	19x	24x	40x	75x	100x	
Rapid Joint LS1	1,5	•	•	•	•	•	•					180 x 60
	2,5	•	•	•	•							
Rapid Joint LS2	1,5					•	•	•	•			210 x 65
	2,5			•	•	•	•	•				
Rapid Joint LS3	1,5						•	•	•	•	•	320 x 100
	2,5						•	•	•	•	•	

Rapid Joint T
Straight joints for telephone cables

UNscreened	SCREENED		Dimensions A x B (mm)
Product	Product	N° pairs for conductor cross sections (n° x mm^2)	
Rapid Joint T26	Rapid Joint TS26	(1 - 26) x (0,5 - 0,6)	180 x 60
Rapid Joint T61	Rapid Joint TS61	(30 + 1 - 64 + 1) x (0,5 - 0,6)	210 x 65
Rapid Joint T101	Rapid Joint TS101	(60 + 1 - 100 + 1) x (0,5 - 0,6)	320 x 100

Clik Fire

Straight or branch joint pre-filled with gel, for multi core cables up to 4 cores.

Electrical performance:
CEI EN 50393 with connectors complying with EN 61238-1 (with testing under water head and water between the cable cores) Class 2 in accordance with CEI 64-8.

No flame propagation:
CEI 20-35 • IEC 60332-1 • HD405-1 (as applicable)

Gel: UL 94-HB

Casing mix: UL 94-V2

Degree of protection: IPX8

Operating Temp: 90˚C

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

Straight or branch multi core joints for 0.6/1 kV extruded cables.

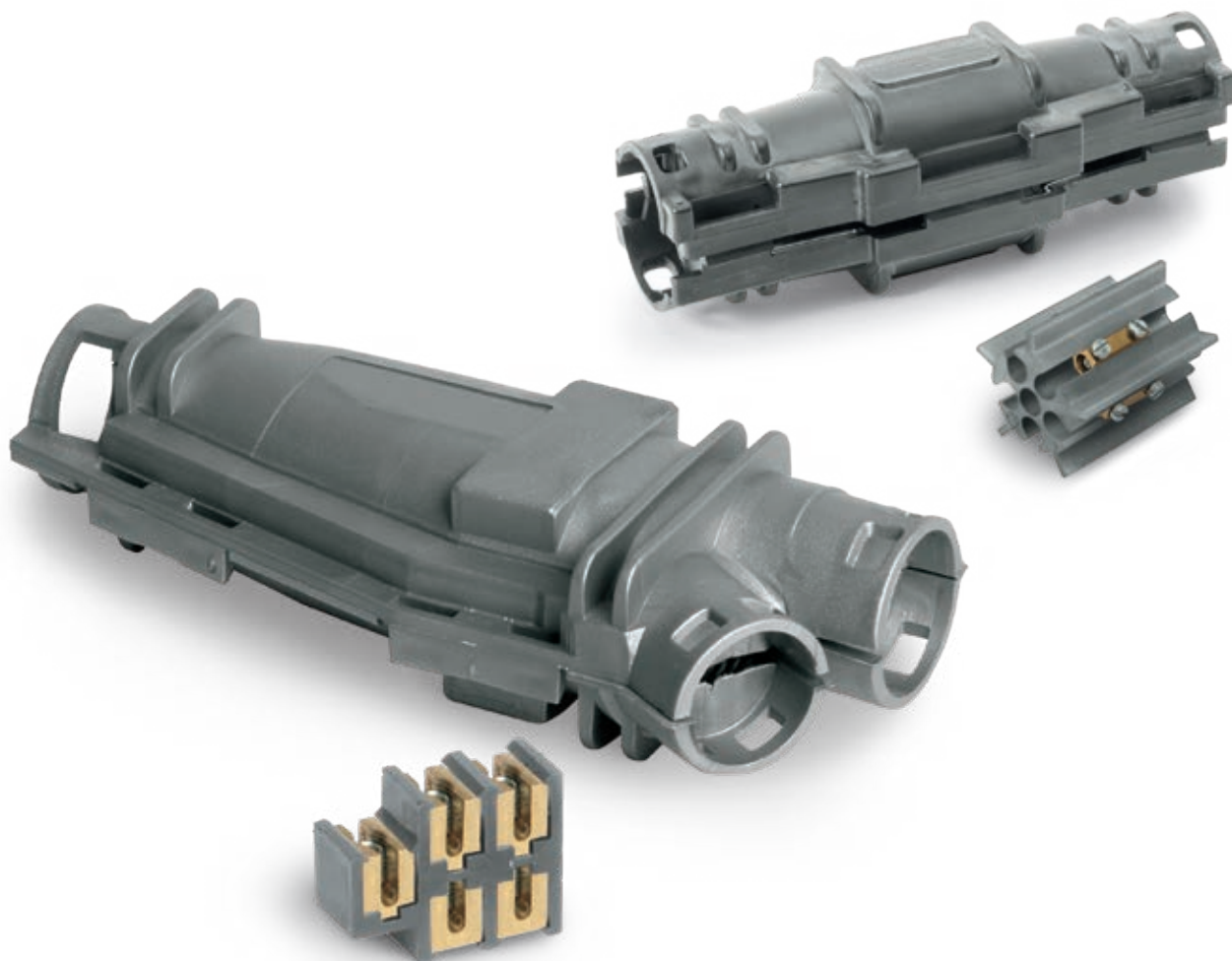| Product	Code	Cable formation and conductor cross sections (n° x mm²)		Ø max cables (mm)		Dimensions A x B x C (mm)
		Through or straight	1 or 2 branch cables	Through or straight	1 or 2 branch cables	
CLIK 0 Fire	CL0F	1 x 2,5 - 50	1 x 1,5 - 10	16	10	95 x 43 x 28
		2 x 2,5 - 6	2 x 1,5			
CLIK 1 Fire	CL1F	1 x 6 - 95	1 x 1,5 - 35	20,5	15	150 x 56 x 30
		2 x 1,5 -1 6	2 x 1,5 - 6			
		3 x 1,5 - 10	3 x 1,5 - 6			
		4 x 1,5 - 10	4 x 1,5 - 4			
CLIK 2 Fire	CL2F	1 x 50 - 185	1 x 16 - 185	30	29	220 x 85 x 46
		2 x 10 - 35	2 x 1,5 - 35			
		3 x 6 - 35	3 x 1,5 - 35			
		4 x 6 - 35	4 x 1,5 - 16			

Branch joints with 30° output for 0.6/1 kV extruded cables.

Product	Code	Through	Branch	Through	Branch	Dimensions A x B x C (mm)
CLIK 2000 Fire	CL2000F	1 x 2,5 - 25	1 x 1,5 - 16	14	12,5	75 x 40 x 21
CLIK 2001 Fire	CL2001F	1 x 6 - 95	1 x 1,5 - 70	22,5	18,5	138 x 60 x 37
		2 x 1,5 -1 6	2 x 1,5 - 10			
		3 x 2,5 - 16	3 x 1,5 - 10			
		4 x 2,5 - 10	4 x 1,5 - 6			
CLIK 2002 Fire	CL2002F	1 x 50 - 150	1 x 1,5 - 70	26	18,5	194 x 74 x 43
		2 x 1,5 - 25	2 x 1,5 - 10			
		3 x 4 - 25	3 x 1,5 - 10			
		4 x 4 - 16	4 x 1,5 - 6			
CLIK 2003 Fire	CL2003F	1 x 150 - 240	1 x 50 - 120	36	26	290 x 105 x 51
		2 x 16 - 50	2 x 10 - 25			
		3 x 16 - 50	3 x 10 - 25			
		4 x 16 - 50	4 x 6 - 16			

Insulating Gels, Rubbers and Resins

Section 02.

0800 GET OHUG

Magic Joint

Straight or branch joint with Magic Gel filling for extruded insulation cables up to 1 kV.

Magic Joints are an easily installed, non-toxic solution for jointing requirements up to 1kV. It is ideal for installing directly underground, or even under water. These joints are re-enterable, and safe to use, making them a very versatile jointing solution.

> Quick cross linking gel, (only 10 minutes at 23°C)
> Extremely adherent and tight sealing
> Non-toxic and safe
> Unlimited shelf life

Electrical performance:
CEI EN 50393 with connectors complying with EN 61238-1 (with testing under water head and water between the cable cores) Class 2 in accordance with CEI 64-8.
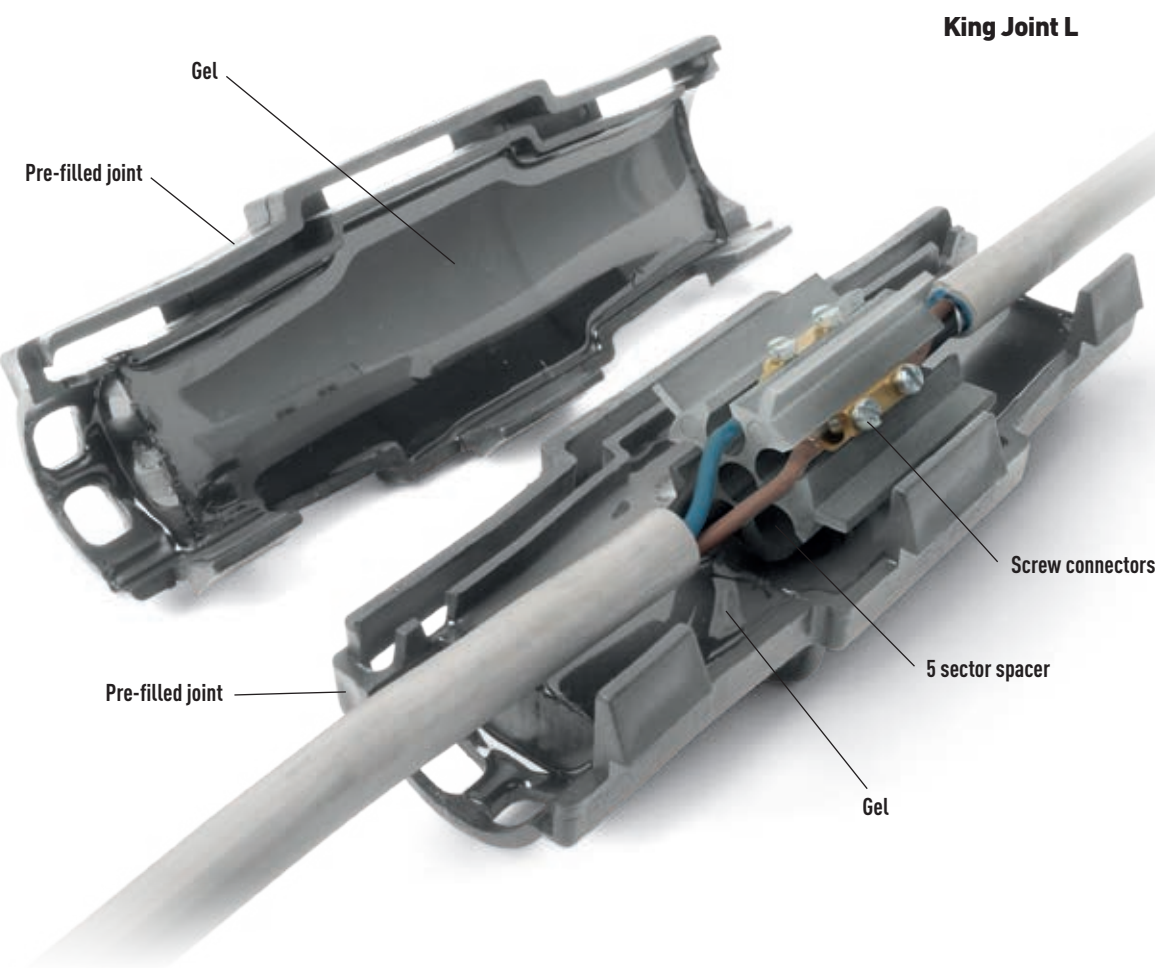
Gel: UL 94-HB

Operating Temp: 90˚C

Installation temperature: -15°C / +45°C

IP68 OFFICIALLY TESTED | **IMQ**

Prepare the joint.

Slip off the separator.

Mix for a minute.

Pour within a minute.

After 10 minutes, Magic joint is ready.

Magic Joint

Straight joint for 0.6/1 kV extruded cables.

For COPPER cables	Cable formation and conductor cross sections (n° x mm²)				Dimensions A x B (mm)
Product / Code	1x	2x	3x	4x	
MJ4	1,5 - 25	1,5 - 4	1,5 - 4	1,5 - 4	160 x 45
MJ10	2,5 - 50	1,5 - 10	1,5 - 10	1,5 - 10 *	180 x 50
MJ25	16 - 150	4 - 25	4 - 25	4 - 25	215 x 55
MJ35	16 - 185	16 - 35	16 - 35	16 - 35	232 x 70
MJ50	50 - 300	16 - 50	16 - 50	16 - 50	266 x 72
MJ95	120 - 400	25 - 95	25 - 95	25 - 95	330 x 75
MJ120	120 - 240	70 - 120	70 - 120	50 - 120	365 x 95
MJ240	400 - 1000	120 - 300	120 - 300	120 - 300	510 x 120
MJ300	630 - 2000	240 - 400	240 - 400	240 - 400	760 x 180
For ALUMINIUM cables	1x	2x	3x	4x	(mm)
MJ50	16 - 150	16 - 25	16 - 25	16 - 25	266 x 72
MJ120	185 - 400	25 - 95	25 - 95	25 - 95	365 x 95
MJ240	400 - 630	95 - 185	95 - 185	95 - 185	510 x 120
MJ300	630 - 2000	185 - 300	185 - 300	185 - 300	760 x 180

* Magic Joint 10 suggested for cable diameters smaller than 16 mm.

Magic Joint Y

Branch joint for 0.6/1 kV extruded cables.

For COPPER cables	Cable formation and conductor cross sections (n° x mm²)								Dimensions A x B (mm)
	1x		2x		3x		4x		
Product/Code	T	B	T	B	T	B	T	B	
MJY6	4 -50	4 -50	4 -10	4 -10	2,5 - 6	2,5 - 6	2,5 - 6	2,5 -6	180 x 90
MJY25	50 - 150	50 - 150	10 - 25	10 - 25	6 - 25	6 - 16	6 - 25	6 - 10	220 x 105
MJY95	120 - 400	95 - 240	25 - 95	16 - 50	25 - 95	16 - 50	25 - 95	10 - 50	315 x 115
MJY240*	240 - 630	240 - 630	95 - 240	50 - 240	95 - 240	50 - 240	95 - 240	50 - 240	600 x 285

T: Through - **B**: Branch   * also for aluminium cables.

Magic Joint Fire

Straight or branch joint with quick cross linking bi-component cast gel for 0.6/1 kV flame retardant cables.

Magic Joint Fire is the flame retardant version of the Magic Joint. In addition to all the features of a standard Magic Joint, this flame retardant option makes it ideal for installation where there is a high fire risk. Available as straight or branch joints, they have the electrical and sealing properties of traditional Magic Gel with the addition of flame retardance. They comply with International legislation regarding low smoke and gas emissions and are also halogen free.

> Flame retardant
> Quick cross linking gel
> Extremely adherent and tight sealing
> For 0.6/1 kV extruded cables
> Non-toxic and safe
> Unlimited shelf life

Electrical performance:
CEI EN 50393 with connectors complying with EN 61238-1 (with testing under water head and water between the cable cores) Class 2 in accordance with CEI 64-8.

No flame propagation: CEI 20-35 • IEC 60332-1 HD405-1 (as applicable) Low smoke and toxic and corrosive gas emissions

Gel: UL 94-HB

Casing mix: UL 94-V2

Operating Temp: 90˚C

Installation temperature: -10°C / +45°C

IP68 OFFICIALLY TESTED | **IMQ**

Magic Joint Fire

Straight joint for 0.6/1 kV extruded cables.

For COPPER cables	Cable formation and conductor cross sections (n° x mm²)				Dimensions A x B (mm)
Product	1x	2x	3x	4x	
Magic Joint 4-Fire	1,5 - 25	1,5 - 4	1,5 - 4	1,5 - 4	160 x 45
Magic Joint 10-Fire	2,5 - 50	1,5 - 10	1,5 - 10	1,5 - 10 *	180 x 50
Magic Joint 25-Fire	16 - 150	4 - 25	4 - 25	2,5 - 25	215 x 55
Magic Joint 35-Fire	16 - 185	16 - 35	16 - 35	16 - 35	232 x 70
Magic Joint 50-Fire	50 - 300	16 - 50	16 - 50	16 - 50	266 x 72
Magic Joint 95-Fire	120 - 400	25 - 95	25 - 95	25 - 95	330 x 75
Magic Joint 120-Fire	240 - 500	70 - 120	70 - 120	50 - 120	365 x 95
Magic Joint 240-Fire	400 - 1000	120 - 300	120 - 240	120 - 240	510 x 120
Magic Joint 300-Fire	630 - 2000	240 - 400	240 - 300	240 - 300	760 x 180
For ALUMINIUM cables	**1x**	**2x**	**3x**	**4x**	**(mm)**
Magic Joint 50-Fire	16 - 150	16 - 25	16 - 25	16 - 25	266 x 72
Magic Joint 120-Fire	185 - 400	25 - 95	25 - 95	25 - 95	365 x 95
Magic Joint 240-Fire	400 - 630	95 - 185	95 - 185	95 - 185	510 x 120
Magic Joint 300-Fire	630 - 2000	185 - 300	185 - 300	185 - 300	760 x 180

Magic Joint Y Fire

Branch joint for 0.6/1 kV extruded cables.
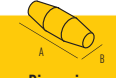
For COPPER cables	Cable formation and conductor cross sections (n° x mm²)								Dimensions A x B (mm)
	1x		2x		3x		4x		
Product	T	B	T	B	T	B	T	B	
Magic Joint Y 6-Fire	4 -50	4 -50	4 - 10	4 - 10	2,5 - 6	2,5 - 6	2,5 - 6	2,5 -6	180 x 90
Magic Joint Y 25-Fire	50 - 150	50 - 150	10 - 25	10 - 25	6 - 25	6 - 16	6 - 25	6 - 10	220 x 105
Magic Joint Y 95-Fire	120 - 400	95 - 240	25 - 95	16 - 50	25 - 95	16 - 50	25 - 95	10 - 50	315 x 115

T: Through - **B**: Branch

Magic Joint S Fire
Straight joint for signalling and control.

Product	Conductor sections cross (mm²)	Cable formation (n° conductors)												Dimensions A x B (mm)
		5x	7x	10x	12x	16x	19x	24x	40x	75x	100x	250x	500x	
Magic Joint S11 Fire	1,5	•	•	•	•	•								180 x 50
	2,5	•	•	•										
Magic Joint S12 Fire	1,5			•	•	•	•	•						215 x 55
	2,5			•	•	•	•							
Magic Joint S13 Fire	1,5					•	•	•	•					266 x 72
	2,5					•	•	•						
Magic Joint S14 Fire	1,5							•	•	•				330 x 75
	2,5							•	•					
Magic Joint S15 Fire	1,5								•	•	•			365 x 95
	2,5								•	•				
Magic Joint S16 Fire	1,5									•	•	•		510 x 120
	2,5									•	•	•		
Magic Joint S17 Fire	1,5										•	•	•	760 x 100
	2,5										•	•	•	

Magic Joint SY Fire
Branch joint for signalling and control.

Product	Conductor sections cross (mm²)	Cable formation (n° conductors)									Dimensions A x B (mm)
		5x	7x	10x	12x	16x	19x	24x	40x	75x	
Magic Joint SY1 Fire	1,5	•	•	•	•	•	•				180 x 90
	2,5	•	•	•	•						
Magic Joint SY2 Fire	1,5					•	•	•			220 x 105
	2,5			•	•	•	•	•			
Magic Joint SY3 Fire	1,5						•	•	•	•	315 x 115
	2,5						•	•	•	•	

Magic Joint T Fire
Straight joint for telephone cables.

UNscreened Product	SCREENED Product	N° pairs for conductor cross sections (n° x mm²)	Dimensions A x B (mm)
Magic Joint T16-Fire	Magic Joint TS16-Fire	1 - 16 x 0,5 - 0,6	180 x 50
Magic Joint T25-Fire	Magic Joint TS25-Fire	16 - 25 x 0,5 - 0,6	215 x 55
Magic Joint T35-Fire	Magic Joint TS35-Fire	25 - 35 x 0,5 - 0,6	266 x 72
Magic Joint T40-Fire	Magic Joint TS40-Fire	35 - 40 x 0,5 - 0,6	330 x 75
Magic Joint T64-Fire	Magic Joint TS64-Fire	40 - 64 x 0,5 - 0,6	365 x 95
Magic Joint T500-Fire	Magic Joint TS500-Fire	60 - 500 x 0,5 - 0,6	510 x 120
Magic Joint T1000-Fire	Magic Joint TS1000-Fire	450 - 1000 x 0,5 - 0,6	760 x 180

Rubber Joint

Straight or branch joint with bicomponent cast quick cross linking rubber insulation for 0.6/1 kW cables.

Rubber Joints have extremely robust mechanical characteristics, as well as dielectric and thermal properties. This makes them ideal for areas of potential heavy abrasion or mechanical stress. Combine all this with an unlimited shelf life, low toxic fume emissions and being re-enterable, and you have a joint suited for some of your harshest conditions.

> Quick cross linking rubber (only 15 minutes)
> Very high mechanical and elastic characteristics
> For 0.6/1 kV extruded cables
> Unlimited shelf life

Electrical performance:
CEI EN 50393 with connectors complying with EN 61238-1 (with testing under water head and water between the cable cores) Class 2 in accordance with CEI 64-8.

Operating Temp: 90˚C

Installation temperature: -15°C / +45°C

IP68 OFFICIALLY TESTED | IMQ

Rubber Joint

Straight joint for 0.6/1 kV extruded cables.

For COPPER cables		Cable formation and conductor cross sections (n° x mm²)				Dimensions A x B (mm)
Product	Code	1x	2x	3x	4x	
Rubber Joint 4	RJ4	1,5 - 25	1,5 - 4	1,5 - 4	1,5 - 4	160 x 45
Rubber Joint 10	RJ10	2,5 - 50	1,5 - 10	1,5 - 10	1,5 - 10 *	180 x 50
Rubber Joint 25	RJ25	16 - 150	4 - 25	4 - 25	4 - 25	215 x 55
Rubber Joint 35	RJ35	16 - 185	16 - 35	16 - 35	16 - 35	232 x 70
Rubber Joint 50	RJ50	50 - 300	16 - 50	16 - 50	16 - 50	266 x 72
Rubber Joint 95	RJ95	120 - 400	25 - 95	25 - 95	25 - 95	330 x 75
Rubber Joint 120	RJ120	240 - 500	70 - 120	70 - 120	50 - 120	365 x 95
Rubber Joint 240	RJ240	400 - 1000	120 - 300	120 - 240	120 - 240	510 x 120
Rubber Joint 300	RJ300	630 - 2000	240 - 400	240 - 300	240 - 300	760 x 180

Rubber Joint Y

Branch joint for 0.6/1 kV extruded cables.

For COPPER cables		Cable formation and conductor cross sections (n° x mm²)								Dimensions A x B (mm)
		1x		2x		3x		4x		
Product	Code	T	B	T	B	T	B	T	B	
Rubber Joint Y6	RJY6	4 - 50	4 - 50	4 - 10	4 - 10	2,5 - 6	2,5 - 6	2,5 - 6	2,5 - 6	180 x 90
Rubber Joint Y25	RJY25	50 - 150	50 - 150	10 - 25	10 - 25	6 - 25	6 - 16	6 - 25	6 - 10	220 x 105
Rubber Joint Y95	RJY95	120 - 400	95 - 240	25 - 95	16 - 50	25 - 95	16 - 50	25 - 95	10 - 50	315 x 115
Rubber Joint Y240*	RJY240	240 - 630	240 - 630	95 - 240	95 - 240	95 - 240	95 - 240	95 - 240	50 - 240	600 x 285

T: Through - **B** : Branch *** also for aluminium cables.**

Raycast

Straight or branch joint with bicomponent epoxy resin insulation for 0.6/1 kV cables.

Straight or branch joints for 0.6/1 kV extruded cables: easily installed, composed of two anti-fracture plastic shells, to be filled with bicomponent epoxy resin such as Rayresin. For installation in channels or directly underground.

Electrical performance:
CEI EN 50393 with connectors complying with EN 61238-1 (with testing under water head and water between the cable cores) Class 2 in accordance with CEI 64-8.

Operating Temp: 90˚C

Installation temperature: 0°C / +45°C
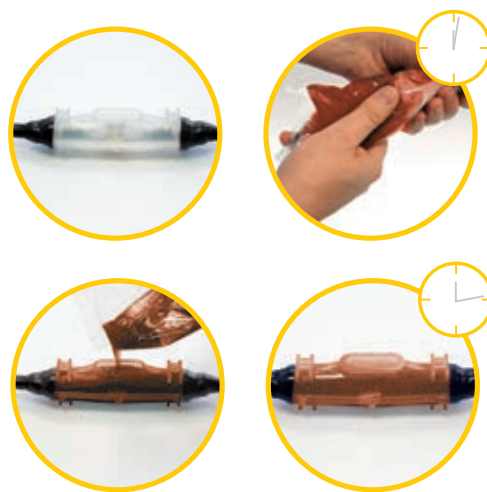
Raycast L
Straight joint for 0.6/1 kV extruded cables.

For COPPER cables	Cable formation and conductor cross sections (n° x mm^2)				Dimensions A x B (mm)
Product	1x	2x	3x	4x	
Raycast L10*	2,5 - 50	1,5 - 10	1,5 - 10	1,5 - 10 *	180 x 50
Raycast L16/25	16 - 150	4 - 25	4 - 25	2,5 - 25	215 x 55
Raycast L35	16 - 185	16 - 35	16 - 35	16 - 35	232 x 70
Raycast L50	50 - 300	16 - 50	16 - 50	16 - 50	266 x 72
Raycast L95	120 - 400	25 - 95	25 - 95	25 - 95	330 x 75
Raycast L120	240 - 500	70 - 120	70 - 120	50 - 120	365 x 95
Raycast L240	400 - 1000	120 - 300	120 - 240	120 - 240	510 x 120
For ALUMINIUM cables	**1x**	**2x**	**3x**	**4x**	**(mm)**
Raycast L50	16 - 150	16 - 25	16 - 25	16 - 25	266 x 72
Raycast L120	185 - 400	25 - 95	25 - 95	25 - 95	365 x 95
Raycast L240	400 - 630	95 - 185	95 - 185	95 - 185	510 x 120

* Raycast L10 is suggested for cable diameters smaller than 16 mm.

Raycast D

Branch joint for 0.6/1 kV extruded cable with 30° output.

For COPPER cables	Cable formation and conductor cross sections (n° x mm²)								Dimensions A x B (mm)
	1x		2x		3x		4x		
Product	T	B	T	B	T	B	T	B	
Raycast D6	4 -50	4 -50	4 -10	4 -10	2,5 - 6	2,5 - 6	2,5 - 6	2,5 -6	180 x 90
Raycast D16/D25	50 - 150	50 - 150	10 - 25	10 - 25	6 - 25	6 - 16	6 - 25	6 - 10	220 x 105
Raycast D95	120 - 400	95 - 240	25 - 95	16 - 50	25 - 95	16 - 50	25 - 95	10 - 50	315 x 115

T: Through - **B** : Branch

Raycast L-S

Straight joint for 0.6/1 kV screened extruded cables.

For COPPER cables	Cable formation and conductor cross sections (n° x mm²)				Dimensions A x B (mm)
Product	1x	2x	3x	4x	
Raycast L10-S	2,5 - 50	1,5 - 10	1,5 - 6	1,5 - 6	180 x 50
Raycast L25-S	16 - 120	4 - 25	4 - 16	2,5- 16	215 x 55
Raycast L35-S	16 - 185	16 - 35	16 - 25	16 - 25	232 x 70
Raycast L50-S	50 - 240	16 - 50	16 - 50	16 - 50	266 x 72
Raycast L120-S	240 - 500	70 - 120	70 - 120	50 - 95	365 x 95
Raycast L240-S	400 - 1000	120 - 300	120 - 185	120 - 185	510 x 120
For ALUMINIUM cables	**1x**	**2x**	**3x**	**4x**	**(mm)**
Raycast L50-S	16 - 150	16 - 25	16 - 25	16 - 25	266 x 72
Raycast L120-S	185 - 400	25 - 95	25 - 95	25 - 95	365 x 95
Raycast L240-S	400 - 630	95 - 185	95 - 185	95 - 185	510 x 120

Raycast D-S

Branch joint for 0.6/1 kV screened extruded cables.

For COPPER cables	Cable formation and conductor cross sections (n° x mm²)								Dimensions A x B (mm)
	1x		2x		3x		4x		
Product	T	B	T	B	T	B	T	B	
Raycast D6-S	4 -35	4 -35	4 -10	4 -10	2,5 - 6	1,5 - 6	2,5 - 6	2,5 -6	180 x 90
Raycast D25-S	35 - 120	35 - 120	10 - 25	10 - 25	6 - 16	6 - 16	6 - 16	6 - 10	220 x 105
Raycast D95-S	95 - 300	70 - 150	25 - 95	16 - 50	16 - 70	16 - 35	16 - 50	10 - 35	315 x 115

T: Through - **B** : Branch
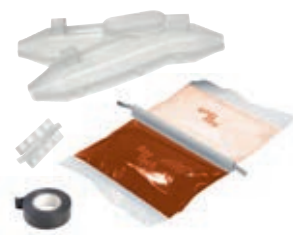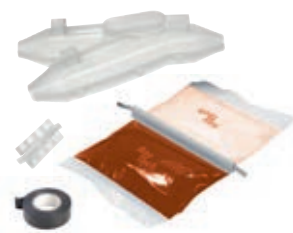
Raycast L-ARM

Straight joint for tape, wire or plate armoured cables

For COPPER cables	Cable formation and conductor cross sections (n° x mm²)			Dimensions A x B (mm)
Product	2x	3x	4x	
Raycast L10-ARM	1,5 - 10	1,5 - 6	1,5 - 6	180 x 50
Raycast L25-ARM	4 - 25	4 - 16	2,5- 16	215 x 55
Raycast L35-ARM	16 - 35	16 - 25	16 - 25	232 x 70
Raycast L50-ARM	16 - 50	16 - 50	16 - 50	266 x 72
Raycast L120-ARM	70 - 120	70 - 120	50 - 95	365 x 95
Raycast L240-ARM	120 - 300	120 - 185	120 - 185	510 x 120
For ALUMINIUM cables	**2x**	**3x**	**4x**	**(mm)**
Raycast L50-ARM	16 - 25	16 - 25	16 - 25	266 x 72
Raycast L120-ARM	25 - 95	25 - 95	25 - 95	365 x 95
Raycast L240-ARM	95 - 185	95 - 185	95 - 185	510 x 120

Raycast D-ARM

Branch joint for tape, wire or plate armoured cable.

For WIRE armoured COPPER cables	Cable formation and conductor cross sections (n° x mm²)						Dimensions A x B (mm)
	2x		3x		4x		
Product	T	B	T	B	T	B	
Raycast D6-ARM-F	4 -10	4 -10	2,5 - 6	2,5 - 6	2,5 - 6	2,5 -6	180 x 90
Raycast D16-ARM-F	10 - 25	10 - 25	6 - 16	6 - 16	6 - 16	6 - 10	220 x 105
Raycast D95-ARM-F	25 - 70	16 - 50	16 - 70	16 - 35	25 - 50	10 - 35	315 x 115
For TAPE OR PLATE armoured COPPER cables	**2x**		**3x**		**4x**		**Dimensions A x B (mm)**
	T	B	T	B	T	B	
Raycast D6-ARM	4 -10	4 -10	2,5 - 6	1,5 - 6	2,5 - 6	2,5 -6	180 x 90
Raycast D16-ARM	10 - 25	10 - 25	6 - 25	6 - 16	6 - 16	6 - 10	220 x 105
Raycast D95-ARM	25 - 70	16 - 50	25 - 70	16 - 35	25 - 50	10 - 35	315 x 115

T : Through - **B** : Branch
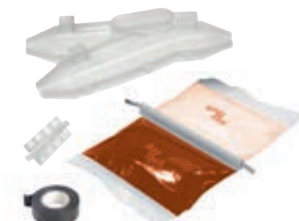
Raycast LPS

Straight joint for very deep submersible pumps.

For COPPER cables	Cable formation and conductor cross sections (n° x mm²)				Dimensions A x B (mm)
Product	1x	2x	3x	4x	
Raycast LPS10	2,5 - 50	1,5 - 10	1,5 - 10	1,5 - 10	180 x 50
Raycast LPS25	16 - 150	4 - 25	4 - 25	2,5- 25	215 x 55
Raycast LPS95	120 - 400	25 - 95	25 - 95	25 - 95	330 x 75
Raycast LPS240	400 - 1000	120 - 300	120 - 240	120 - 240	510 x 120
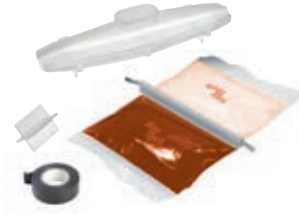
Raycast DPS

Branch joint for very deep submersible pumps.

For COPPER cables	Cable formation and conductor cross sections (n° x mm²)								Dimensions A x B (mm)
	1x		2x		3x		4x		
Product	T	B	T	B	T	B	T	B	
Raycast DPS6	4 -50	4 -50	4 -10	4 -10	2,5 - 6	2,5 - 6	2,5 - 6	2,5 -6	180 x 90
Raycast DPS25	50 - 150	50 - 150	10 - 25	10 - 25	6 - 25	6 - 16	6 - 25	6 - 10	220 x 105
Raycast DPS95	120 - 400	95 - 240	25 - 95	16 - 50	25 - 95	16 - 50	25 - 95	10 - 50	315 x 115
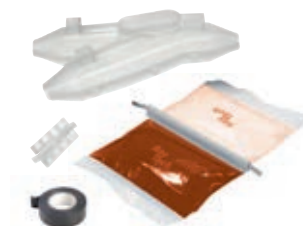
Raycast SL

Straight joint for signalling and control.

Product	Conductor sections cross (mm²)	Cable formation (n° conductors)											Dimensions A x B (mm)
		5x	7x	10x	12x	16x	19x	24x	40x	75x	100x	250x	
Raycast SL11	1,5	•	•	•	•	•							180 x 50
	2,5	•	•	•									
Raycast SL12	1,5			•	•	•	•	•					215 x 55
	2,5			•	•	•	•						
Raycast SL13	1,5				•	•	•	•					266 x 72
	2,5					•	•	•					
Raycast SL14	1,5							•	•	•			330 x 75
	2,5							•	•				
Raycast SL15	1,5								•	•	•		365 x 95
	2,5								•	•			
Raycast SL16	1,5									•	•	•	510 x 120
	2,5									•	•	•	

Raycast SD

Branch joint for signalling and control.

Product	Conductor sections cross (mm²)	Cable formation (n° conductors)									Dimensions A x B (mm)
		5x	7x	10x	12x	16x	19x	24x	40x	75x	
Raycast SD1	1,5	•	•	•	•	•	•				180 x 90
	2,5	•	•	•	•						
Raycast SD2	1,5					•	•	•			220 x 105
	2,5			•	•	•	•	•			
Raycast SD3	1,5						•	•	•	•	315 x 115
	2,5						•	•	•	•	

Raycast TL & TSL

Straight joint for telephone cable.

UNscreened Product	SCREENED Product	N° pairs for conductor cross sections (n° x mm²)	Dimensions A x B (mm)
Raycast TL16	Raycast TSL16	1 - 16 x 0,5 - 0,6	180 x 60
Raycast TL25	Raycast TSL25	16 - 25 x 0,5 - 0,6	215 x 55
Raycast TL35	Raycast TSL35	25 - 35 x 0,5 - 0,6	266 x 72
Raycast TL40	Raycast TSL40	35 - 40 x 0,5 - 0,6	330 x 75
Raycast TL64	Raycast TSL64	40 - 64 x 0,5 - 0,6	365 x 95
Raycast TL500	Raycast TSL500	60 - 500 x 0,5 - 0,6	510 x 120

Insulating Gels, Rubbers and Resins

Section 02.

0800 GET OHUG

Magic Power Gel

The unique bi-component gel in a single bottle, with superior dielectric, sealing and thermal characteristics, re-enterable and re-usable.

> Very sticky
> Strong self amalgamating characteristics
> Single compact bottle; convenient twin compartment
> Re-usable as well as re-enterable, even after long working periods
> Non toxic and safe

Gel: UL 94-HB

Degree of protection: IP68 (in proper casings)

Operating Temp: –60°C / +200°C

Overload temperature for short periods:
up to 250°C

Stabilised for: mould - UV

Volume resistivity: >2 . 1015 Ω cm

Cross linking time: fast (about 15 min. at 25°C)

Dielectric strength: >23 kV/mm

IP68 OFFICIALLY TESTED | **IMQ**

Stickiness
> Exceptional sealing properties in any condition
> Better resistance to pressure
> Effective even in vertical or ceiling applications

Zero waste
> Due to the nature of the product waste is
  eliminated; even residual product can be saved
  and used for the next application

Magic Power Gel

Product	Code	Package type	Quantity
Magic Power Gel	Magicpower Gel	1 single, bi-component bottle 1 small basin - 1 mixing spoon	1000 ml
Magic Power Gel 500	POA	1 single, bi-component bottle 1 small basin - 1 mixing spoon	500 ml
Magic Power Gel 250	POA	1 single, bi-component bottle	250 ml

For all types of connections, even in the toughest conditions, for power, telecom and signalling

Magic Gel & Magic Fluid

Bicomponent gel with very high dielectric and thermal characteristics, ideal for connection systems (joint shells or enclosures) for power cables.

Magic Gel and Magic fluid ensure an IP68 level of protection when installed in suitable casings, and is able to replace all types of resins. This is a self polymer insulation in two practical bottles or a single use bag, with cross linking occurring in less than 10 minutes. Completely non-toxic, and an unlimited shelf life, combined with no thermal stress while cross linking makes this an ideal alternative to traditional resins.

> For high temperature applications
> Quick cross linking (only 10 minutes)
> Re-enterable also after long working periods
> Non-toxic and safe with unlimited shelf life
> Low viscosity

Gel: UL 94-HB

Dielectric strength: 23 kV/mm

Cross linking time: fast (about 10 min. at 23°C)

Volume resistivity: >2 . 10^{15} Ω cm

Working temperature: -60°C / +200°C

Overload temperature for short periods: up to 250°C

Stabilised for: mould - UV

Degree of protection: IP68 (in proper casings)

IP68 OFFICIALLY TESTED | **IMQ**
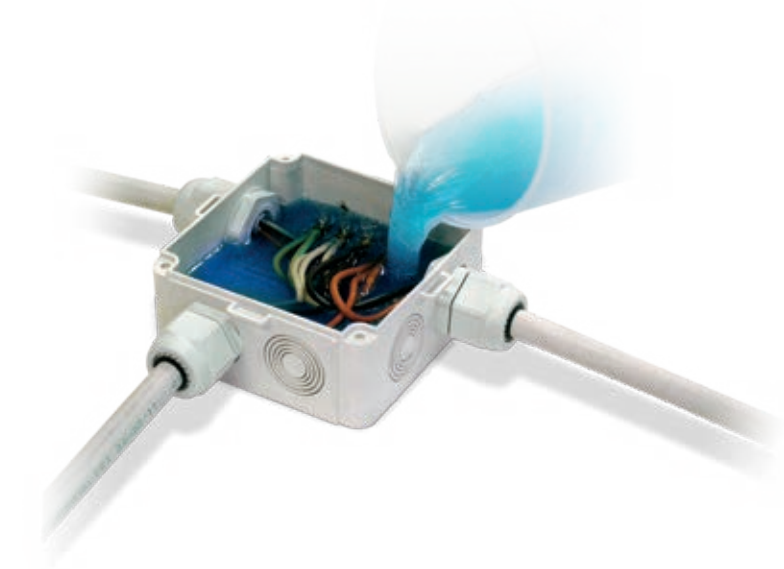
✓ **INSULATION:** Elevated voltages (1 kV operating, 4 kV testing)

✓ **THERMAL PERFORMANCE:** Operating temperature 90°C, overload temperature 130°C, short circuit temperature 250°C

✓ **SEALING:** Installations also possible in humid environments, flooded wells

✓ **CERTIFIED SYSTEMS:** The combination of insulation gel + casing must comply with current standards CEI 20-33 and EN 50393

Magic Gel

Product	Code	Package type	Quantity
Magic Gel 300	MG300	2 bottles	300 ml
Magic Gel 1000	MG1000	2 bottles - 1 small basin - 1 mixing spoon	1000 ml
Magic Gel 2000	MG2000	2 bottles - 1 small basin - 1 mixing spoon	2000 ml
Magic Gel 10000	MG10000	2 tanks - 1 small basin - 1 mixing spoon	10 lt

Magic Fluid

Product	Code	Package type	Quantity
Magic Fluid 90	POA	Bicomponent single dose bags	90 gr
Magic Fluid 110	POA	Bicomponent single dose bags	110 gr
Magic Fluid 170	MF170	Bicomponent single dose bags	170 gr
Magic Fluid 210	MF210	Bicomponent single dose bags	210 gr
Magic Fluid 420	MF420	Bicomponent single dose bags	420 gr
Magic Fluid 550	POA	Bicomponent single dose bags	550 gr
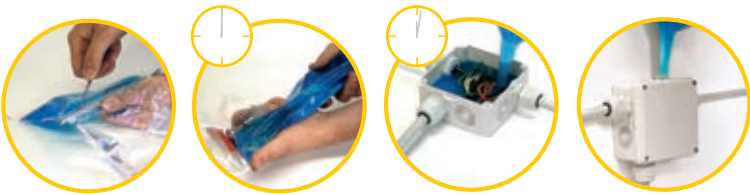
WonderGel

Single component insulating gels in cartridge to instantly protect new installations and oversee maintenance of all types of electrical connections.

An installers best friend. Electrical connections in empty enclosures are exposed to many risks including short circuiting, oxidation, and corrosion. Wonder Gel and Wonder Gel Invisible are easily installed, giving you protection and safety in a fast, easy to use application system.

> Ready to use. No mixing required. Already cross-linked. No need to wait.
> Resolve issues connected to incorrect insulation or sealing
> Protect your systems from the penetration of insects
> Protect your electrical connections from oxidation and corrosion

WonderGel

WonderGel INVISIBLE

Characteristics:

> Single component gel which comes already cross-linked in a cartridge

> No mixing, no waiting time

> Visco-elastic gel which is extremely fluid

> Self-levelling and self-vulcanizing

> Easy to measure

> Does not expire and does not harden

> Easy to apply even to inaccessible areas

> Characteristics do not deteriorate with the passing of time

> Re-enterable

> Non-toxic and safe

> Can be applied in all weather conditions, even when raining or in the heat of the summer sun

> Can be applied to powered appliances

> Dielectric strength > 23 kV/mm

> Volume resistivity > 2. 10^{15} Ω cm

> Operating temperature from −60 / +200°C

> Overload temperature for brief periods: 250˚C

> Gel UL 94-HV

* Protection degree IP68 in proper casings

WonderGel

Product	Code	Package type	Quantity
Wonder Gel	WG280	Cartridge with measuring nozzle	280 ml
Wonder Gel Invisable	WGI280	Cartridge with measuring nozzle	280 ml

Gel technology comparison

	MAGIC GEL	MAGIC POWER GEL		WONDERGEL
PRODUCT	**MAGIC GEL** Bi-component gel in 2 bottles	**MAGIC POWER GEL** Bi-component gel in single, 2 compartment bottle		**WONDERGEL** Ready-to-use single component gel in a cartridge
METHOD OF APPLICATION	MIX AND POUR	**1**- MIX AND POUR	**2**- MIX, WAIT & STICK	INJECT
INSTALLATION TEMPERATURE (°C)	- 5 * -10 **/+45 -15 ***	- 5 * -10 **/+55 -15 ***	-40 / +60	-40 / +110
OPERATING TEMPERATURE (°C)	-60 / +200	-60 / +200	-60 / +200 Ready to use in 15 min	-60 / +200 Ready to use
CROSS LINKING TIME (minutes at 25°C) 130-C2	< 10 min.	ca. 15 min.	-	-
PRINCIPAL CHARACTERISTICS	RE-ENTERABLE	RE-ENTERABLE REUSABLE	STICKY RE-ENTERABLE REUSABLE	INJECTABLE RE-ENTERABLE

* Poured at -5°C from bottles stored at >10°C.
** Poured at -10°C from bottles stored at >20°C.
*** Poured at -15°C from bottles stored at -15°C (cross linking within 48 hours).

Techno Gel Gum

Single bottle two-component insulation with very high dielectric, thermal and sealing characteristics. Waterproof and re-enterable.

TechnoGelGum is a strong hold flexible elastomer optimal for protecting power cables, telecommunication cables, and electronic circuits. TechnoGelGum combines the best of Gel and Rubber, making it elastic and flexible like Gel, but also tough and dry like rubber.

> For installations up to 1 kV
> Suitable for high temperatures
> Even suitable for high depths under water
> Waterproof > 1 MPa
> UV resistant
> Removable
> Vibration resistant - can act as a damper
> Suitable for installation in salt water (sea) and in chlorinated water (pools)
> Non toxic and safe

Dielectric strength: > 21 kV/mm

Cross linking time: fast (about 10 min. at 25°C)

Volume resistivity: >2 . 10^{15} Ω cm

Operating temperature: -60°C / +200°C

Overload temperature for short periods: up to 250°C

Stabilised for: mould - UV

Degree of protection: IP68 (in proper casings)

IP68 OFFICIALLY TESTED | **IMQ**

Not quite a GEL and not quite RUBBER, BUT HAS THE BEST FEATURES OF BOTH!

Safe

Waterproof

Re-Enterable

Techno Gel Gum

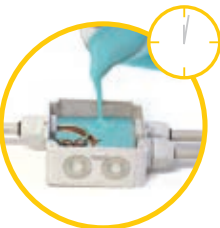| Product	Code	Colour	Package type	Quantity
Techno Gel Gum	Tegelgum	•	1 single, bi-component bottle 1 small basin - 1 mixing spoon	1 kg
Techno Gel Gum 500		•	1 single, bi-component bottle 1 small basin - 1 mixing spoon	500 gr

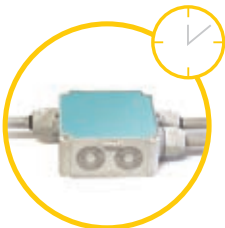## Installation steps

Shake before using.

Pour TechnoGelGum into the provided beaker in a 1:1 ratio.

Mix for 1 min. max.

Pour within 1 min. max.

In just 10 minutes the curing is completed.

Sky Plast

Bicomponent rubber in insulating, mouldable, self-extinguishing paste with high dielectric characteristics.

Sky Plast is a technical innovation for covering, protecting, insulating, finishing and fireproofing any electrical or non-electrical components. Once the two components have been blended in a 1:1 ratio until uniform (max 2 minutes), it cross links at room temperature in less than 5 minutes. Sky Plast quickly transforms into a layer of rubber with high dielectric and self-extinguishing properties.

> Mouldable, non-toxic and safe paste
> Low smoke and toxic and corrosive gases emission
> Able to replace taping, heat-shrinking, resin finishes
> Flexible and elastic
> Quickly ready for use

Dielectric strength: > 23 kV/mm

Degree of protection: IP68 (in proper casings)

IP68 OFFICIALLY TESTED | **IMQ**

Sky Plast

Product	Code	Package type	Quantity
Sky Plast	SKYPL	2 bicomponent cans	500 gr
Sky Plast 250	SKYPL250	2 bicomponent cans	250 gr

Installation steps
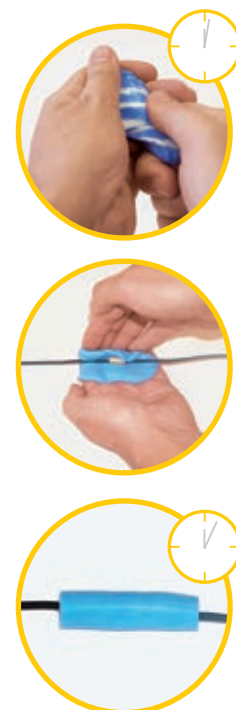
Installation examples

Cable gland sealing

Creation of LV terminals

Insulation of multiple connections

Conduit protection

Drop line, bar, transformer through insulation

On-site preparation of braces and supports

Preparation of deflectors, nozzles, flow deviators

Preparation on-site of expanders for inserts

Preparation on-site of small moulds for reliefs

Preparation of bars, washers, round wire insulators
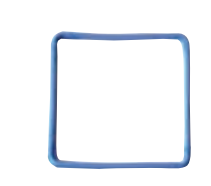
Preparation on-site of seals

Magic Rubber

Fast cross linking bicomponent rubber.

Bicomponent insulating liquid rubber, extremely conformable and fluid, flexible, elastic and re-enterable. In just a few minutes it transforms into a rubber with very high dielectric, thermal, mechanical and elastic characteristics.

> For installation up to 1kV
> Low smoke, toxic and corrosive gas emissions
> Ideal for casts and moulds
> Unlimited shelf life

Cross linking time:
15 minutes at 23°C

Volume resistivity: $>2 \ 10^{15} \ \Omega$ cm

Dielectric strength: > 23 kV/mm

Specific weight: 1,22 approx

Degree of protection:
IP68 (in proper casings)

Magic Rubber & Rubber Fluid

Product / Code	Colour	Package type	Quantity
Magic Rubber-500	●	2 bicomponent bottles 1 measuring cup - 1 mixing palette	500 gr
Magic Rubber-10	●	2 bicomponent bottles 1 measuring cup - 1 mixing palette	10 kg
Rubber Fluid-200	●	Bicomponent single dose bags	200 gr
Rubber Fluid-350	●	Bicomponent single dose bags	350 gr

Installation steps

Mix the 2 components in a ratio of 1:1.

Mix for max 30 seconds.

Pour the product into the casing to be filled.

In just a few minutes, the product transforms into rubber.

Rayresin

Bicomponent epoxy resin for installations up to 1 kV.

Resin for electrical insulation and for the protection of thermosetting LV and MV accessories. The two components, the base resin and hardener, are mixed in close contact to trigger the cross linking reaction. Excellent bonding to metal, plastic and rubber components.

Cross linking time:
20 minutes at 20°C

Hardness: 70 Shore D

Dielectric strength: 21 kV/mm

Specific weight: 1,07 kg/dm^3 1,7 kg/dm^3 for Rayresin Tan 3,8

Water absorption: 0,8% max

Rayresin

Product	Colour	Package type	Quantity
Rayresin 170	●	Bicomponent single dose bags	170 gr
Rayresin 210	●	Bicomponent single dose bags	210 kg
Rayresin 420	●	Bicomponent single dose bags	420 gr
Rayresin Tan 3,8	●	Tin with mineral charge	3.8 kg

Installation steps

Remove the separator from the Rayresin bag.

Mix the 2 components (30 seconds max).
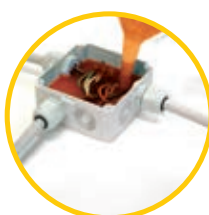
Pour Rayresin in the tray (1 minute max).

Installation completed

Galactic Protection

Bicomponent rubber for printed circuit protection including against animal intrusion.

Protection for PCB's which are exposed to dust or animal intrusion (insects, snails, etc e.g. in automatic gate trays). It can be removed without damaging the PCB, and new Galactic Protection can be applied. Composed of two part rubber with unlimited shelf life and UV resistance, Galactic Protection is a game changer.

Kit composition:
2 vials bicomponent product

Galactic Protection

Product	Code	Description	Quantity
Galactic Protection	GalacticProt	bicompenent rubber	300 ml

Magic Box

IP68 Connection kit complete with Magic Fluid insulating gel.

Universal IP68 kits with unlimited shelf life, the Magic Box is mechanically robust, non-toxic, and suitable for installation in even the most extreme conditions. Re-enterable and compliant with International Standards, the Magic Box protects from water, moisture, dust and ingress from small animals.

> Re-enterable even after long periods of operation
> Able to absorb external shock without fracturing
> For installations even at high depths
> Also suitable for vertical filling
> Unlimited shelf life
> Non toxic and safe

Electrical Performance: CEI EN 60529

Degree of protection: IP68 Class 2 in accordance with CEI 64-8.

Gel: UL 94-HB

Operating temperature: 90°C

Gel operating temperature: -60°C / +200°C

Halogen Free: in accordance with CEI EN 50267 2-2

IP68 OFFICIALLY TESTED | **IMQ**

Magic Box is suitable for any kind of installation, even underground or directly submerged!

Magic Box is always re-enterable, even after long working periods

Magic Box

Product/Code	Max external Ø housed in input cables (mm)	N° and type of cable glands	Internal kit dimensions (mm)	Composition Kit
Magic Box 65	22	3 x PG16	Ø 65 x h 35	Kit complete with cover. 3 cable glands. Series of closing plugs. Insulating gel for complete filling.
Magic Box 80	22	3 x PG16	Ø 80 x h 40	
Magic Box 100	20	3 x M25 x 1.5	100 x 100 x h 50	
Magic Box 120	20	3 x M25 x 1.5	120 x 80 x h 50	
Magic Box 150	26	3 x M25 x 1.5	150 x 110 x h 70	
Magic Box 190	26	3 x M25 x 1.5	190 x 140 x h 70	
Magic Box 240	26	3 x M25 x 1.5	240 x 190 x h 90	

Kit box installation steps

Fix the box and cover the screws with the caps.
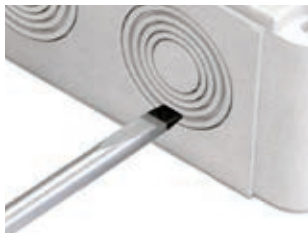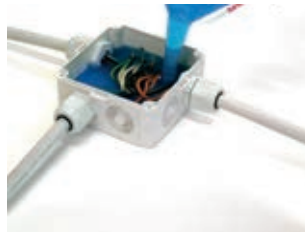

Knock out the pre prepared holes.

Install the cable glands.

Insert the cables and connect the wires.

Horizontal installation steps

Vertical installation steps

Examples of application

PUBLIC LIGHTING

NAVAL SECTOR

OUTDOOR - GARDENS

ELECTRIC GATES

J-Box

Snap shut enclosures with perforated knockouts.

Enclosure with snap shut cover and perforated knockouts for faster mounting of cable glands. Very high mechanical and flame retardant properties. Non-toxic, re-enterable only by means of a tool. The screwless design prevents screws rusting over time due to moisture and allows for easy re-entry. Screw caps are also supplied for the wall mounting screws along with 3 cable glands and a stopping plug for vertical filling.

> Can be insulated with Magic Power Gel, Magic Gel, Wonder Gel (IP68)
> Re-enterable only with the use of a tool
> Also suitable for vertical filling
> Excellent shock-resistance
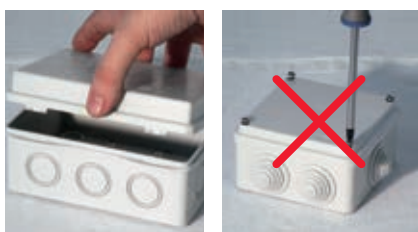> Self-extinguishing
> Halogen Free

Electrical Performance: CEI 23-48, IEC 60670

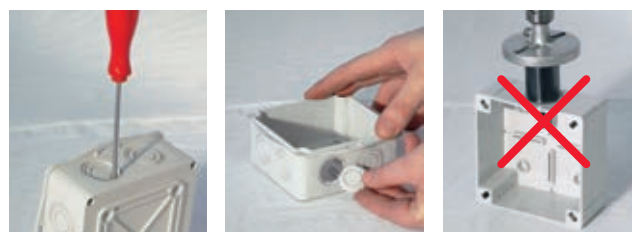**Degree of protection:**
empty IP55 filled with Gel Raytech IP68

Halogen free: according to CEI EN 50267 2-2

Self-extinguishing and resistant to abnormal heat and fire: Glow wire test at +960°C according to EN 60695-2-11

Snap-shut (without screws)

Pre-drilled walls

J-Box. Enclosures with perforated knockouts.

Product	Max external Ø housed in input cables (mm)	Max external Ø housed in input cables (mm)	Max external Ø housed in input cables (mm)	Max dimension housed		Dimensions (mm)
				PG	METRIC	
J-BOX 65	4	23	23	16	20	Ø 65 x h 35
J-BOX 80	4	22	22	16	20	Ø 80 x h 40
J-BOX 100	8	20	20	21	25	100 x 100 x h 50
J-BOX 120	6	20	20	21	25	120 x 80 x h 50
J-BOX 150	10	26	26	29	32	150 x 110 x h 70
J-BOX 190*	10	26	26	29	32	190 x 140 x h 70
J-BOX 240*	12	26	26	29	32	240 x 190 x h 90

* Supplied with extractable hinge for opening book type. Note: All boxes include 3 cable glands Ray Pass 16.

Accessories

Ray-PRESS. Cable glands.

METRIC Product	METRIC	Assembly hole Ø (mm)	Cable range Ø		Item packaging
			min (mm)	max (mm)	
Ray PRESS-16	M16 x 1.5	16	6	10	50
Ray PRESS-20	M20 x 1.5	20	8	13	50
Ray PRESS-25	M25 x 1.5	25	12	18	20
Ray PRESS-32	M32 x 1.5	32	16	20	20

PG Product	METRIC	Assembly hole Ø (mm)	Cable range Ø		Item packaging
			min (mm)	max (mm)	
Ray PRESS-PG11	11	19	6	9	50
Ray PRESS-PG13.5	13,5	20	9	12	50
Ray PRESS-PG16	16	23	11	14	50
Ray PRESS-PG21	21	29	14	18	20

Ray-PASS. Rubber flexible grommets.

Product	For pipe maximum external Ø (mm)	Assembly hole Ø (mm)	Item packaging
Ray PASS 16	20	23	50
Ray PASS 21	23,5	29	50
Ray PASS 29	32	38	50

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