



## JOINTS

### GEL CONNECTION

Micro-joints IP68/IP69K



**Electrical performance:**  
CEI EN 50393  
as applicable

**Gel:** UL 94-HB

Operating temperature

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

Fully submersible

Can be used underground

**IP69K**  
OFFICIALLY  
TESTED

**IP68**  
OFFICIALLY  
TESTED

**IMQ**



**IP68:** (6) protected against dust and solid objects over 1 mm.  
(8) Protected from permanent immersion in water.

**IP69K:** (9K) protected against close-range high pressure, high temperature spray downs.

## LV

# Little Joint Line



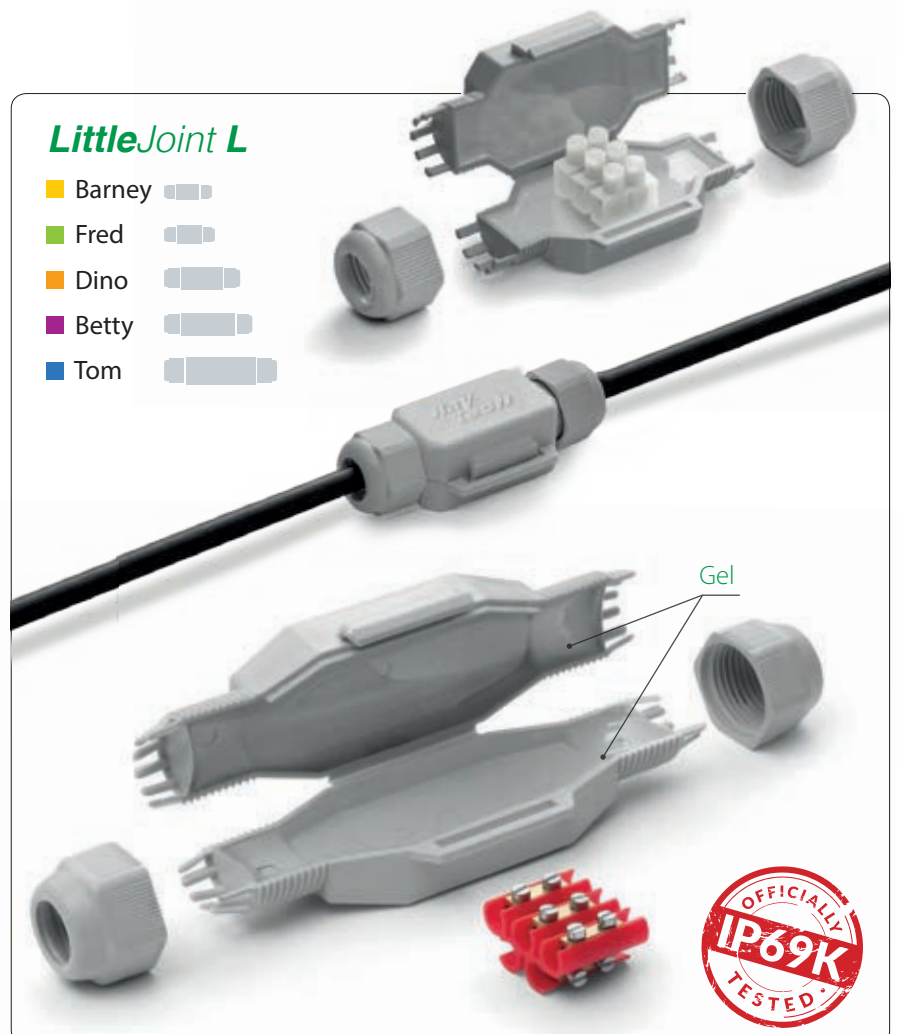
The IP68 / IP69K micro-joints, gel pre-filled, complete with connector, suitable for any type of installation, even the most extreme.

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

- Pre-filled with classified non-toxic gel
- Extremely compact and ready to install
- Ideal for connections in lighting systems for gardens, steps and stairways, pedestrian crossings, etc.
- Halogen Free & UV resistant
- Always re-enterable

### LittleJoint L

- Barney
- Fred
- Dino
- Betty
- Tom

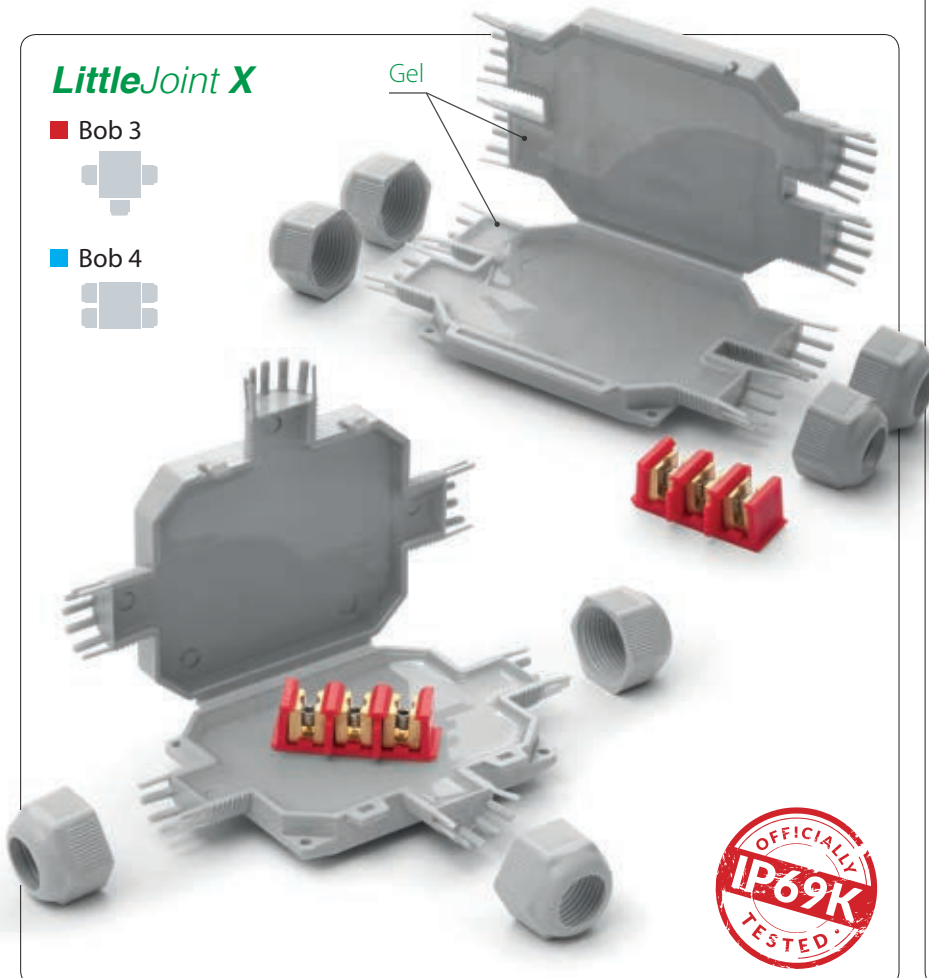


**LittleJoint Y**

- Barney Y
- Fred Y
- Dino Y

**LittleJoint X**

- Bob 3
- Bob 4





# JOINTS

## GEL CONNECTION

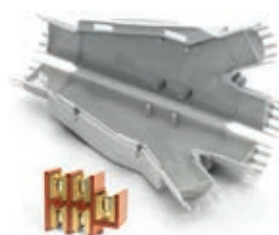
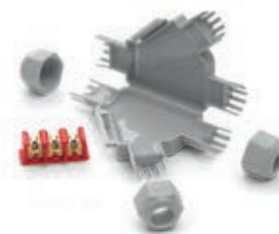
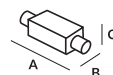
Micro-joints IP68/IP69K

# LV



## LittleJoint L

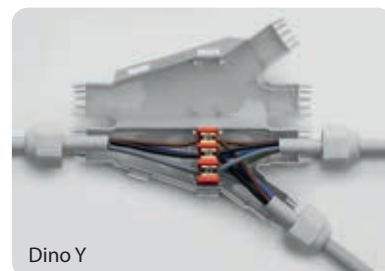
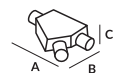
Product	Colour	Connector	Cable formation max (N° x mm²)		Ø cables min - max (mm)	Pieces / Pack	A x B x C (mm)
Barney	●		2 x 2,5		6 - 10	1 / Blister	75 x 28 x 19
Barney - N	●					1 / Blister	
Barney MP	●					10 / Multipack	
Fred	●		3 x 2,5		8 - 13	1 / Blister	80 x 36 x 23
Fred - N	●					1 / Blister	
Fred 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	



## LittleJoint Y

Product	Colour	Connector	Cable formation max (N° x mm²)		Ø cables min - max (mm)	Pieces / Pack	A x B x C (mm)
			Through	Branch			
Barney Y	●		1 x 4	1 x 1,5	6 - 10	1 / Blister	85 x 55 x 22
Barney Y - N	●		1 x 2,5	1 x 2,5		1 / Blister	
Fred Y	●		3 x 4	3 x 1,5	8 - 13	1 / Blister	110 x 72 x 25
Fred Y - N	●		3 x 2,5	3 x 2,5		1 / Blister	
Dino Y	●		5 x 6	5 x 1,5	14 - 19	1 / Blister	160 x 75 x 37
Dino Y - N	●		5 x 4 *	5 x 2,5 *		1 / Blister	

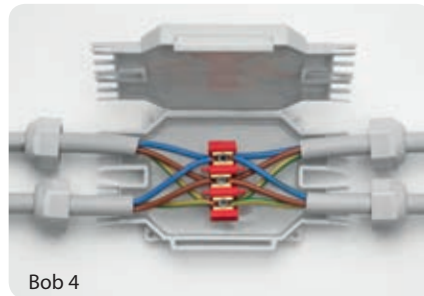
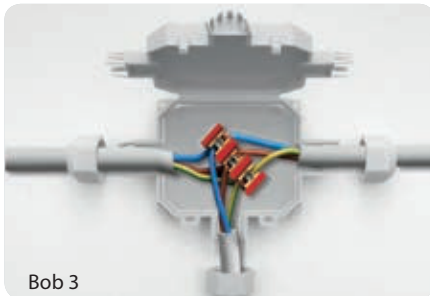
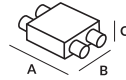
\* section for rigid cables





**LittleJoint X**

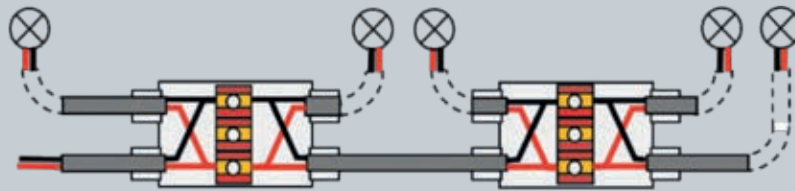
Product	Colour	Connector	Cable formation max (N° x mm <sup>2</sup> )		Ø cables min - max (mm)	Pieces / Pack	A x B x C (mm)
			Through	Branch			
Bob 3	●		1 cable 3 x 4 3 x 2,5	2 cables 3 x 4	8 - 13	1 / Blister	105 x 80 x 25
Bob 3 - N	●			2 cables 3 x 2,5		1 / Blister	
Bob 4	●		1 cable 3 x 4 3 x 2,5	2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

Some installation possibilities for **Bob 4**

Parallel branch system with  
3 three-core cables up to 3 x 4 mm<sup>2</sup>

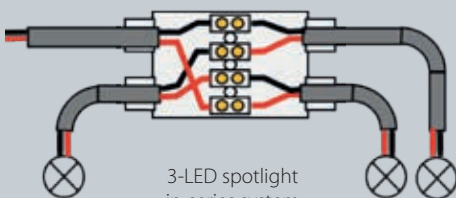


Parallel branch system with  
4 three-core cables up to 3 x 2.5 mm<sup>2</sup>

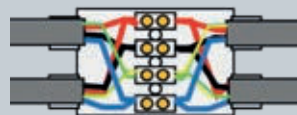


Parallel 5-lamp connection system

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



For use in traps. 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.

**Ray  
tech**