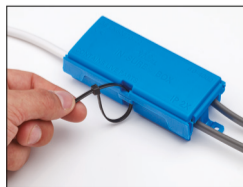


## MAINTENANCE FREE ACCESSORY

When the In-Sure® Box is installed in an inaccessible location, the additional instructions below apply. This ensures the completed installation complies with BS 5733 for a maintenance free accessory.

**Step 1:** Apply BS 5733 rating requirements. Only use the connectors referred to in table 3. Connectors have been de-rated to be suitable as a BS 5733 maintenance free accessory. The Max Aggregate Current (I<sub>ag</sub>) is the sum of all the possible currents through the In-Sure® Box in normal use. This limit must not be exceeded.

Usually the max I<sub>ag</sub> equals the number of phase connectors in the In-Sure® Box multiplied by the rating of the OPD (Over Current Protective Device) for the circuit.



**Step 2:** Follow the In-Sure® Box BS EN 60670-22 installation instructions. Additionally secure the lid on the In-Sure® Box with a cable tie passed through the loop.

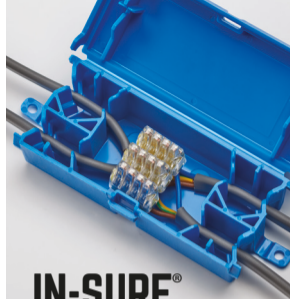
**If you have any doubts consult a professional electrician or other qualified installer.**

Table 3.

Connector Model No.	Wire Connector Description	Max Current / Voltage ~ Rating	Max Cable mm <sup>2</sup>	Max Aggregate Current (max I <sub>ag</sub> )
32	2 Port In-Sure® Push-In	16A 250V	2.5mm <sup>2</sup>	48A
33	3 Port In-Sure® Push-In	16A 250V	2.5mm <sup>2</sup>	24A
34	4 Port In-Sure® Push-In	16A 250V	2.5mm <sup>2</sup>	24A
52	2 Port In-Sure® Lever	16A 250V	2.5mm <sup>2</sup>	48A
53	3 Port In-Sure® Lever	16A 250V	2.5mm <sup>2</sup>	24A
55	5 Port In-Sure® Lever	16A 250V	2.5mm <sup>2</sup>	24A
42	SpliceLine® in-line	16A 250V	2.5mm <sup>2</sup>	24A

## Ordering Information

Model	Description Of Connector	Quantity	Cat. No.
32	2 Port In-Sure® Push-In	Box of 100	30-1032
33	3 Port In-Sure® Push-In	Box of 100	30-1033
34	4 Port In-Sure® Push-In	Box of 100	30-1034
52	2 Port In-Sure® Lever	Box of 40	30-1052
53	3 Port In-Sure® Lever	Box of 40	30-1053
55	5 Port In-Sure® Lever	Box of 30	30-1055
59	2 Port, 3 port and 5 port In-Sure® Lever	Combo pack: 10 x 2-port 10 x 3-port 10 x 5-port	30-1059
42	SpliceLine® in-line	Pack of 10	30-1342S
42	SpliceLine® in-line	Box of 100	30-1042
-	In-Sure® Box	Each	30-4000



# IN-SURE® BOX

## INSTALLATION INSTRUCTIONS

(BS EN 60670-22 & BS 5733-MF)



FOR ADDITIONAL INFORMATION ON OUR WIRE CONNECTOR RANGE PLEASE VISIT:

[WWW.WIRE-CONNECTORS.COM](http://WWW.WIRE-CONNECTORS.COM)

IDEAL INDUSTRIES Electrical Europe  
Unit 3, Europa Court, Europa Boulevard,  
Westbrook, Warrington, WA5 7TN, UK

Tel: +44 (0)1925 44 44 46  
Fax: +44 (0)1925 44 55 01  
sales@idealelectrical.eu

Products and specifications subject to change. E&OE  
©2018 IDEAL INDUSTRIES, INC.

SAFE, FAST &  
MAINTENANCE  
FREE



## COMPATIBLE WIRE CONNECTORS

The IDEAL In-Sure® Box enclosure can only be used with In-Sure® Push-In, In-Sure® Lever and SpliceLine® connectors as indicated below.

Connector Model No.	Description	Wire Combination Range	Strip length
32	2 Port In-Sure® Push-In	Solid Wires 0.75mm <sup>2</sup> -2.5mm <sup>2</sup>	13mm
33	3 Port In-Sure® Push-In	Rigid Stranded Wires 1.5mm <sup>2</sup> -2.5mm <sup>2</sup>	13mm
34	4 Port In-Sure® Push-In	(Rigid) stranded wire is ≤ 7 strands	13mm
52	2 Port In-Sure® Lever	Solid, Rigid Stranded and Flexible Wires 0.2mm <sup>2</sup> -2.5mm <sup>2</sup>	9-10mm
53	3 Port In-Sure® Lever		9-10mm
55	5 Port In-Sure® Lever		9-10mm
42	SpliceLine® in-line	Solid: 0.5mm <sup>2</sup> - 4.0mm <sup>2</sup> Stranded*: 1.0mm <sup>2</sup> - 2.5mm <sup>2</sup>	13mm

\* Stranded wire is limited to ≤ 7

When installed in an accessible location, the In-Sure® Box is rated at 450V~48A as per BS EN 60670-22.

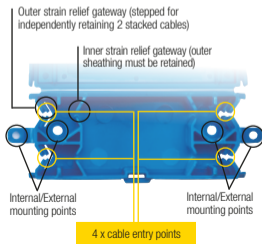
The connectors are rated at 24A.

## COMPATIBLE CABLE TYPES

The In-Sure® Box is designed to accept most common flat and round cables with an overall diameter of between 3 to 8mm – see below for the range of cables supported by the In-Sure® Box and the maximum cables per size.

Cable Type/Size	Flat Twin & Earth	3 Core Flat & Earth	General Purpose Flexible Cable	2 Core Flat Flexible Cable
2.5mm <sup>2</sup>	2	N/A	N/A	N/A
1.5mm <sup>2</sup>	6	4	2	N/A
1.0mm <sup>2</sup>	8	6	4	N/A
0.75mm <sup>2</sup>	N/A	N/A	4	8
0.5mm <sup>2</sup>	N/A	N/A	6	8

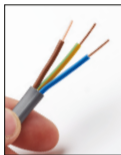
The In-Sure® Box can accept up to 6 individual connectors and has 4 cable entry points.



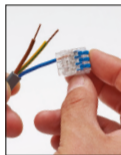
## STEP BY STEP GUIDE

The In-Sure® Box enclosure has no loose parts and is simple and easy to use. Simply follow the steps below to provide a secure installation in an accessible location as per BS EN 60670-22:

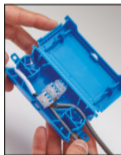
**Step 1:** Decide on either single end entry or in-line wiring configuration.



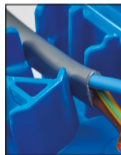
**Step 2:** Strip back the outer protective sheathing of the cable.



**Step 3:** Connect the cables together to make the circuit.



**Step 4:** Place the termination into the In-Sure® Box firmly pressing the cables into the cable grips.



**Step 5:** The outer sheathing of cable must be secured by the inner and outer grips.



**Step 6:** If installing 2 cables of the same type through 1 cable entry point, the cables should be the same type.



**Step 7:** Squeeze the In-Sure® Box together and snap shut the lid.

**Step 8:** The In-Sure® Box has the ability to be mounted to any suitable surface using counter sunk no. 6 screw (3.5mm thread) either by using 2 external mounting points or if preferred, the 2 internal mounting points.

**Step 9:** **DO NOT** cover the In-Sure® Box with insulating material.