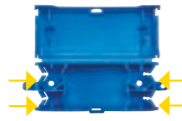# INSTALLATION INSTRUCTIONS

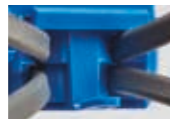## SIMPLIFIED INSTALLATION INSTRUCTIONS (FOR BS EN 60670-22 ACCESSORY)

1. Select IDEAL wire connectors (model 32, 33, 34, 52, 53, 55 or 42).

2. Choose either single end entry or in-line wiring configuration.

3. Only cables of the same type can be stacked in the same entry point.

4. Strip back the outer protective sheathing of the cable. Strip the wire and place the conductor inside the wire connector.

5. Place the wire connectors in the In-Sure® Box. Secure the cables in the patented In-Sure® cable grip system.

6. Ensure the outer jacket protrudes a minimum of 5 mm to enable it to be gripped by both the outer and inner cable grips.

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

8. The In-Sure® Box can be mounted using screws either by using the internal or external mounting points.

INSTALLATION INSTRUCTIONS (FOR BS 5733-MF MAINTENANCE FREE ACCESSORY)

For a maintenance free installation, follow the installation instructions on the previous page plus the steps below:

9. Use the de-rated connectors referred to in the table below.

MODEL	WIRE CONNECTOR DESCRIPTION	MAX CURRENT/ VOLTAGE ~ RATING	MAX CABLE MM²	MAX AGGREGATE CURRENT (Max Iag)
32	2 Port In-Sure® Push-In	16A/250V	2.5mm²	48A
33	3 Port In-Sure® Push-In	16A/250V	2.5mm²	24A
34	4 Port In-Sure® Push-In			
52	2 Port In-Sure® Lever	16A/250V	2.5mm²	48A
53	3 Port In-Sure® Lever	16A/250V	2.5mm²	24A
55	5 Port In-Sure® Lever			
42	SpliceLine® in-line wire	16A/250V	2.5mm²	24A

Connectors have been de-rated to be suitable as a BS 5733 maintenance free accessory. The Max Aggregate Current (Iag) is the sum of all the possible currents through the In-Sure® Box in normal use. This limit must not be exceeded.

Please check out our full installation instructions on **www.wire-connectors.com.**

10. Secure the lid with a cable tie.

11. DO NOT cover the In-Sure® Box with insulating material.

MISCELLANEOUS INFORMATION

WIRE COMBINATION RANGE AND STRIP LENGTH

MODEL	DESCRIPTION	WIRE COMBINATION RANGE	STRIP LENGTH
32	2 Port In-Sure® Push-In	Solid Wires: 0.75mm²-2.5mm² Rigid Stranded Wires: 1.5mm²-2.5mm² (Rigid stranded wire is ≤ 7 strands)	13 mm
33	3 Port In-Sure® Push-In		13 mm
34	4 Port In-Sure® Push-In		13 mm
52	2 Port In-Sure® Lever	Solid, Rigid Stranded and Flexible Wires 0.2mm²-2.5mm²	9-10 mm
53	3 Port In-Sure® Lever		9-10 mm
55	5 Port In-Sure® Lever		9-10 mm
42	SpliceLine® in-line	Solid: 0.5mm2 - 4.0mm² Stranded*: 1.0mm² - 2.5mm²	13 mm

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**
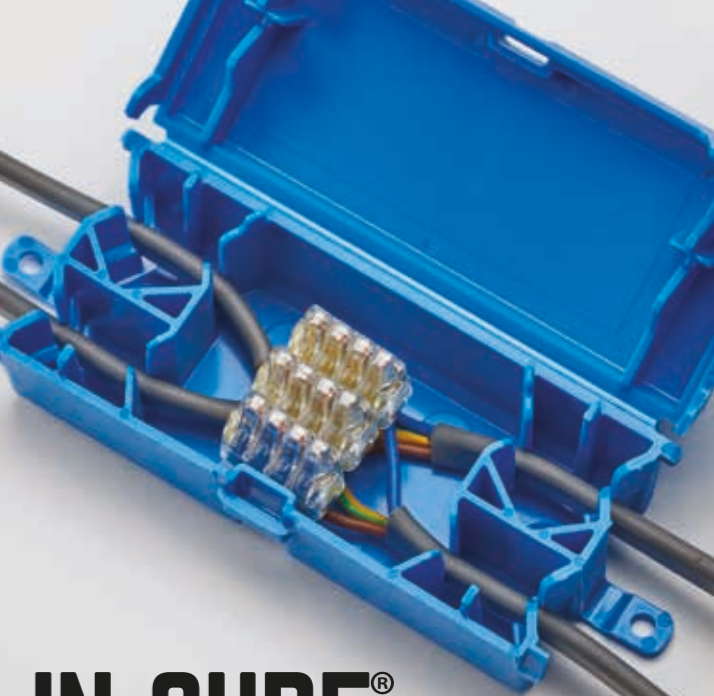
IN-SURE® BOX

SAFE, FAST & MAINTENANCE FREE

IDEAL®

IN-SURE® BOX

For more than seven decades IDEAL have been a leading manufacturer of electrical connectors.

The BS 5733 maintenance free accessory standard stipulates that a maintenance free junction box should be used when installing an electrical junction in an inaccessible location, i.e. behind plasterboard or under a floor etc. This eliminates the need for access panels or expensive re-work of finished surfaces.
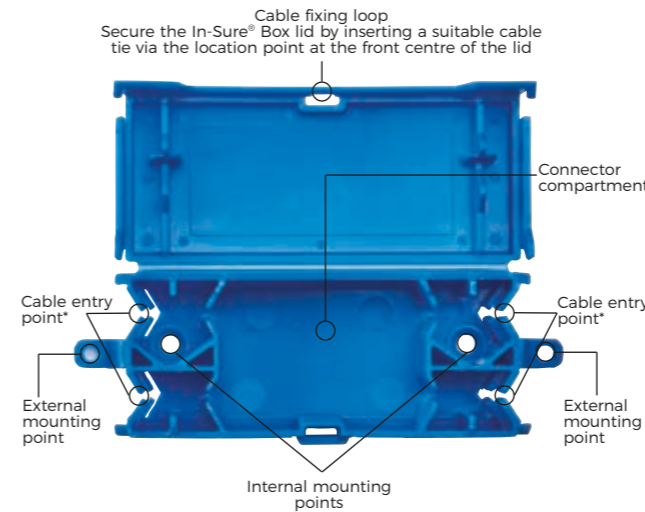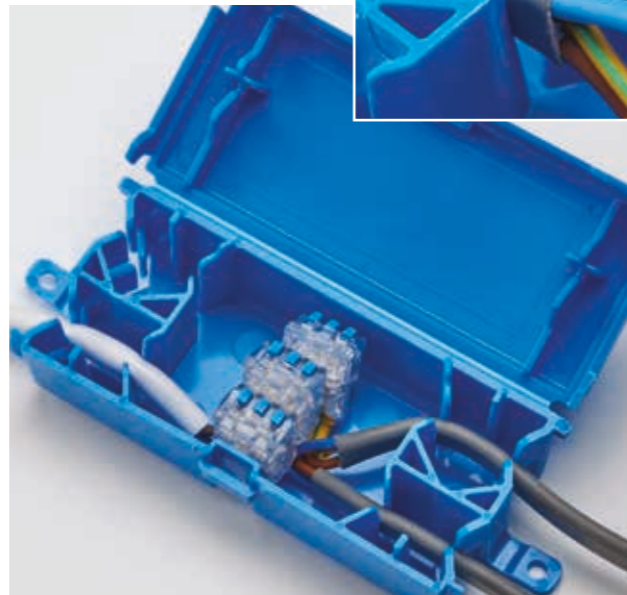
The In-Sure® Box complies with the BS 5733 and the 18th Edition of BS 7671 wiring regulations.

It makes electrical junction enclosure installation fast and easy without the need for any tools.

The IDEAL In-Sure® Box enclosure is designed for use with In-Sure® Push-In, In-Sure® Lever and SpliceLine® connectors.

- **NO TOOLS REQUIRED** - making installation simple and fast
- **SMALL** - fits through a 50mm hole for spot light or similar installations
- **VERSATILE** - one enclosure suits multiple installation requirements.
- **EASY TO USE** - no loose parts to fit or lose
- **SECURE YOUR CABLES IN SECONDS** - patented In-Sure® cable grip system
- **MAINTENANCE FREE** - eliminate the need for access panels

Cable fixing loop
Secure the In-Sure® Box lid by inserting a suitable cable tie via the location point at the front centre of the lid

Connector compartment

Cable entry point*

Cable entry point*

External mounting point

External mounting point

Internal mounting points

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

Staggered gates to lock cables in position
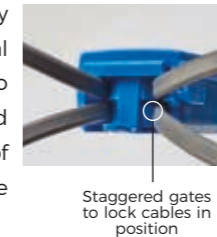
Cable Type/Size	Flat Twin & Earth	3 Core Flat & Earth	General Purpose Flexible Cable	2 Core Flat Flexible Cable
2.5mm²	2	N/A	N/A	N/A
1.5mm²	6	4	2	N/A
1.0mm²	8	6	4	N/A
0.75mm²	N/A	N/A	4	8
0.5mm²	N/A	N/A	6	8

The design allows for the In-Sure® Box to be installed either as cable entry from just one end or as an 'in-line' configuration. Please refer to the chart on the back page for more information.
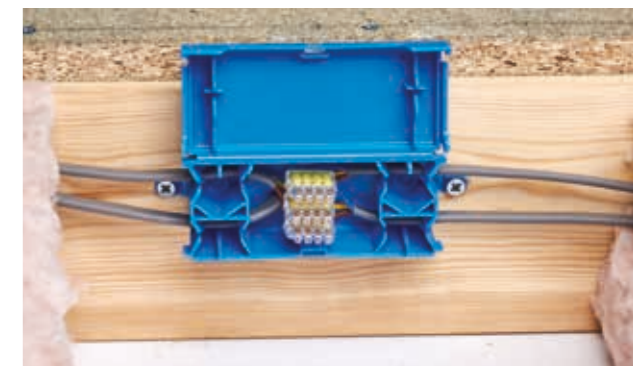
Supports lighting application from 1.5mm² to 0.5mm²

Simple spotlight installation

In-line cable splice

Lighting spur