

# Blown Fibre Tube Cable Connectivity

Prysmian Part Numbers: See Individual Descriptions



1) Swept Tee Branching Unit



3) Extended In-Line Enclosure



5) Tube Intercept Joints



2) 90° Tee Piece Branching Unit



4) 4 Port Extended In-line Enclosure

This is a guide to the selection of cable connectivity used in the Sirocco system. **These items are used for blown fibre tube connectivity only and not for fibre connectivity.**

Items 1 – 4 are used to join or distribute from blown fibre tube cables with 7 tubes or more (when utilising any of the Direct Buried range of tube constructions) and for 12 tubes or more when utilising the Direct Install range (cable diameter dependent). Item 5 would be used to accommodate up to a 7 tube cable with up to 4 tube cable for the drop. These connectivity products can be introduced as part of the original network build, or can be fitted at a later date as required. The units are intended to protect the area of the tube-to-tube connection and allow access to the tubes to establish the initial link and any additional future links or revised routing i.e. they are re-enterable.

## Features and Benefits

- All products can be fitted on day one or retro-fitted as required.
- All products are suitable for direct burial or installation in manholes.
- Fast installation using Sirocco cable and tube cutters.
- Individual tubes can be connected or blocked using the standard range of Sirocco tube connectors (see datasheet SA001)

### Items 1 – 4

- Resistant to significant ingress of mud, sand and debris.
- Impact resistance – a 1kg steel ball falling from a height of 2m.
- Items 1 & 2 available as kits with grab rings, port reducers & manifolds.
- For items 3 & 4, these are supplied separately.

### Item 5

- Sealing to IP041.
- Supplied with necessary cable adapters, end caps, connectors and cable ties for in-line cable plus one drop cable.
- Internal product moulded with LSOH material.

## Kit Contents

These products are sometimes supplied as a kit comprising the body of the branching unit together with the appropriate inserts to manage the cables to be used in it.

In most cases the kit would include the following additional parts:

- Grab Rings used to cushion the primary cable within the body of the branching unit (alternatives appropriate to size of cable being used).
- Port Reducer used to allow cushioning of smaller drop cable from primary cable link.
- Manifold and Plug Kits used to manage a number of drop cables from a primary cable link.

See following pages for kit contents.

# 40mm Swept Tee Branching Unit

Prysmian Part Numbers: See Table Below



**Dimensions:**

Length	325mm
Width	250mm
Height	80mm

The Swept Tee Branching Unit is designed to intercept Sirocco tube cables, either during initial construction or at a later date and allow single tube cables to be branched off to customer premises. The units are designed to permit blown fibre units to be installed from one direction only. The customer drop cables can be either;

- 1-off 1 way Direct Buried or Direct Install cable (Using the Port Reducer XCCSC00016)
- 1-off 2 way Direct Buried or Direct Install cable (Also using Port Reducer XCCSC00016)
- Up to 3-off 1 way Direct Buried or Direct Install cables (Using the Manifold and Plug Kit XBFSC00104)

**Part Number Information**

Available as individual parts or as a kit. The table below lists the items that would be included in each kit.

Kit Description	Part No.	Kit Contents	Kit Contents Part No.
Swept Tee Kit for use with primary cable, either 24 or 19 way Direct Buried Tube Cable	XBFSC00105	1 x 40mm Swept Tee Body	XCCSC00003
		2 x 40mm Grab Rings	As part of XCCSC00003
		1 x 40/10-20mm Port Reducer	XCCSC00016
		5 x 10mm Manifold & Plug Kit	XBFSC00104
Swept Tee Kit for use with primary cable, either 24 or 19 way Direct Install Tube Cable or 12 way Direct Buried Tube Cable	XBFSC00106	1 x 40mm Swept Tee Body	XCCSC00003
		2 x 40/32-28mm Grab Rings	XCCSC00014
		1 x 40/10-20mm Port Reducer	XCCSC00016
		5 x 10mm Manifold & Plug Kit	XBFSC00104
Swept Tee Kit for use with primary cable, either 12 way Direct Install Tube Cable or 7 way Direct Buried Tube Cable	XBFSC00112	1 x 40mm Swept Tee Body	XCCSC00003
		2 x 40/22mm Grab Rings	XBFSC00102
		1 x 40/10-20mm Port Reducer	XCCSC00016
		5 x 10mm Manifold & Plug Kit	XBFSC00104

Refer to CIG038 for assembly instructions

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Issue 01, July 2006  
Ref: SA002-01

# 40mm 90° Tee Piece Branching Unit

Prysmian Part Numbers: See Table Below



**Dimensions:**

Length	350mm
Width	250mm
Height	100mm

The 90 degree Tee Piece Branching Unit is designed to intercept Sirocco tube cables, either during initial construction or at a later date and allow single tube cables to be branched off to customer premises. The units are designed to permit blown fibre units to be installed from both directions. The customer drop cables can be either;

- 1-off 1 way Direct Buried or Direct Install cable (Using the Port Reducer XCCSC00016)
- 1-off 2 way Direct Buried or Direct Install cable (Also using Port Reducer XCCSC00016)
- Up to 3-off 1 way Direct Buried or Direct Install cables (Using the Manifold and Plug Kit XBFSC00104)

## Part Number Information

Available as individual parts or as a kit. The table below lists the items that would be included in each kit.

Kit Description	Part No.	Kit Contents	Kit Contents Part No.
90° Tee Kit for use with primary cable, either 24 or 19 way Direct Buried Tube Cable	XBFSC00107	1 x 40mm 90° Tee Piece Body	XCCSC00002
		2 x 40mm Grab Rings	As part of XCCSC00002
		1 x 40/10-20mm Port Reducer	XCCSC00016
		5 x 10mm Manifold & Plug Kit	XBFSC00104
90° Tee Kit for use with primary cable, either 24 or 19 way Direct Install Tube Cable or 12 way Direct Buried Tube Cable	XBFSC00108	1 x 40mm 90° Tee Piece Body	XCCSC00002
		2 x 40/32-28mm Grab Rings	XCCSC00014
		1 x 40/10-20mm Port Reducer	XCCSC00016
		5 x 10mm Manifold & Plug Kit	XBFSC00104
90° Tee Kit for use with primary cable, either 12 way Direct Install Tube Cable or 7 way Direct Buried Tube Cable	XBFSC00113	1 x 40mm 90° Tee Piece Body	XCCSC00002
		2 x 40/22mm Grab Rings	XBFSC00102
		1 x 40/10-20mm Port Reducer	XCCSC00016
		5 x 10mm Manifold & Plug Kit	XBFSC00104

Refer to CIG041 for assembly instructions

# 50mm Extended In-line Enclosure

Prysmian Part Number: XBFSC00094



**Dimensions:**

Length 640mm  
 Width 100mm  
 Height 100mm



The Extended In-line Enclosure is designed for blown fibre tube cable connection applications and can also be used as a device to permit extended range blowing for the blown fibre units. It is possible to joint the following cables or combinations thereof;

- 12, 19, and 24 way Direct Install cables
- 7, 12, 19, and 24 way Direct Buried cables.

## Part Number Information

The table below lists the items that are required for use with the 50mm Extended In-line Enclosure (**XBFSC00094**) to accommodate the various cables that could be used.

Item Description	Relevant Cable Type	Part No.
Extended In-Line Enclosure		XBFSC00094
50-40mm Grab Ring	24-way Direct Buried Tube Cable	XCCSC00030
50-32mm Grab Ring	24-way or 19-way Direct Install Tube Cable or 19-way or 12-way Direct Buried Tube Cable	XCCSC00035 "
50-25mm Grab Ring	12-way Direct Install Tube Cable or 7-way Direct Buried Tube Cable	XCCSC00037 "
40mm Side Port Adapter		XBFSC00148
Port Reducer Grab Ring for 40/32-28mm	12-way Direct Buried Tube Cable	XCCSC00014
Port Reducer Grab Ring for 40/22mm	12-way Direct Install Tube Cable or 7-way Direct Buried Tube Cable	XBFSC00102 "
Port Reducer Grab Ring for 40/20-10mm	7/4/2-way Direct Install Tube Cable or 4/2-way Direct Buried Tube Cable	XCCSC00016 "
10mm Manifold and Plug Kit	5 x 1-way Direct Buried Tube Cable	XBFSC00104
50mm Port Plug		XCCSC00036

Please note, grab rings must be ordered for each port of the Extended In-Line Enclosure to suit requirement.

Refer to CIG039 for assembly instructions

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Issue 01, July 2006  
 Ref: SA002-01

# 50mm 4 Port Extended In-line Enclosure

Prysmian Part Number: XCCSC00015



**Dimensions:**

Length 640mm  
 Width 180mm  
 Height 100mm

The 4 Port Extended In-line Enclosure is designed for blown fibre tube cable connection and distribution applications, and can also be used as a device to permit extended range blowing for the blown fibre units. It is possible to joint the following cables or combinations thereof;

- 12, 19, and 24 way Direct Install cables.
- 7, 12, 19, and 24 way Direct Buried cables.

### Part Number Information

The table below lists the items that are required in addition to the 50mm 4 Port Extended In-line Enclosure (**XCCSC00015**); these items are determined by the type of cables that are going to be used in each application. For any ports that are not used, a 50mm Port Plug (**XCCSC00036**) should be used.

Item Description	Relevant Cable Type	Part No.
4-Port Extended In-Line Enclosure		XCCSC00015
50-40mm Grab Ring	24-way Direct Buried Tube Cable	XCCSC00030
50-32mm Grab Ring	24-way or 19-way Direct Install Tube Cable	XCCSC00035
	or 19-way or 12-way Direct Buried Tube Cable	"
50-25mm Grab Ring	12-way Direct Install Tube Cable	XCCSC00037
	or 7-way Direct Buried Tube Cable	"
50mm Port Plug		XCCSC00036

Please note, grab rings must be ordered for each port of the Extended In-Line Enclosure to suit requirement.

Refer to CIG042 for assembly instructions

## Alternative Components for use with Branching Units

For use with **Items 1 & 2**



40/32 - 28mm Grab Ring  
**XCCSC00014**



40/22mm Grab Ring  
**XBFSC00102**



40/10 - 20mm Port Reducer  
**XCCSC00016**



5 x 10mm Manifold & Plug Kit  
**XBFSC00104**

For use with **Items 3 & 4**



50 - 40mm Grab Ring  
**XCCSC00030**



50 - 32mm Grab Ring  
**XCCSC00035**



50 - 25mm Grab Ring  
**XCCSC00037**



50mm Port Plug  
**XCCSC00036**

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Issue 01, July 2006  
Ref: SA002-01

## Tube Intercept Joint

Prysmian Part Numbers: XJTSC00203 (External)  
XJTSC00204 (Internal)



**Dimensions:**

Length	350mm
Width	130mm
Height	52mm

The Tube Intercept Joints are in-line closures designed for intercepting a blown fibre tube cable to allow a spur-off to smaller blown fibre tube cable drops. The closures are non-watertight but meet the requirements of IP41. No screws or fixings are required to assemble the closures. The closures are supplied with sufficient components to install the in-line blown fibre tube cable and a blown fibre tube drop cable of up to 4 tubes. The units can be used both as a Cable Distribution Joint and in Cable Jointing Applications.

The Internal and External Tube Intercept Joints are supplied with cable adapters, 4 x 5mm end caps, 4 x 5mm straight connectors and cable ties, sufficient to enable the preparation, installation and connection of one in-line blown fibre tube cable and one blown fibre tube drop cable.

The Internal product is moulded with Low Smoke Zero Halogen (LSOH) material.

In both designs, there is an internal metal chassis (stainless steel) for cable retention and simple installation.

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## Tube Connectors

Prysmian Part Numbers: see Datasheet SA001

To actually make the individual tube connections or cap unused tubes, preventing moisture or solid material migration, inside all of these blown fibre tube connectivity products, a range of tube connectors are available which push fit over the 5mm tubing to achieve a water and gas-tight connection. The capabilities of the range of tube connectors can be found in datasheet SA001.

## Tools

Prysmian Part Numbers: see Datasheet SA004

In order to prepare the blown fibre tube cables for distribution or connection, the blown fibre tube cables and the tubes will need to be prepared. The recommended tooling is identified in datasheet SA004 and will also be referred to in the relevant CIG (Cable Installation Guide) as noted throughout this datasheet.

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