

**SSC2131 Series Dome Closure
V100R001C00
Product Description**

Issue 02
Date 2011-12-14

Copyright © Huawei Technologies Co., Ltd. 2011. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd.

Trademarks and Permissions



HUAWEI and other Huawei trademarks are trademarks of Huawei Technologies Co., Ltd.

All other trademarks and trade names mentioned in this document are the property of their respective holders.

Notice

The purchased products, services and features are stipulated by the contract made between Huawei and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

Huawei Technologies Co., Ltd.

Address: Huawei Industrial Base
Bantian, Longgang
Shenzhen 518129
People's Republic of China

Website: <http://www.huawei.com>

Email: support@huawei.com

Contents

1 Overview	1
1.1 Positioning.....	1
1.2 Benefits	2
2 Architecture	3
2.1 Overview	3
2.2 Structure	4
3 Application Scenarios	7
3.1 Overview	7
3.2 Application Scenarios.....	7
4 Typical Configurations	9
5 Technical Specifications	10
5.1 Performance Specifications	10
5.2 Standards Compliance	11
A Acronyms and Abbreviations.....	12

1 Overview

1.1 Positioning

The SSC2131 dome heat shrinking sealed closure (SSC2131 closure for short) is an outdoor product that is installed in a man hole or hand hole. The SSC2131 closure is applicable to the feeder optical cable and the distribution optical cable in the fiber to the home/premise/unit/curb/building/neighborhood (FTTx)-optical distribution network (ODN) and routes, branches, and connects optical cables. [Figure 1-1](#) shows the position of the SSC2131 closure in the FTTx-ODN.

Figure 1-1 Position of the SSC2131 closure in the FTTx-ODN



1.2 Benefits

Modular Design

- The splicing tray uses modular design and the number of splicing trays configured is flexible. This meets the requirements for multiple capacities.
- The SSC2131 closure has user-friendly functional user interfaces. Routings to be maintained are easily identified and independent maintenance space is available.

Reliable Sealing

- Optical cable leading-in holes use heat shrinking sealing. This ensures reliable sealing in a man hole or hand hole.
- The upper and lower cases of the closure use mechanical sealing. Cases are opened and sealed without tools, which facilitates onsite engineering and maintenance.

2 Architecture

2.1 Overview

The SSC2131 closure has multiple models. [Table 2-1](#) lists the specifications of various SSC2131 closures.

Table 2-1 Specifications of various SSC2131 closures

Model		SSC2131-48	SSC2131-144	SSC2131-192	SSC2131-240
Dimensions (H x D)		450 mm x Φ 230 mm (17.72 in. x Φ 9.06 in.)	465 mm x Φ 260 mm (18.31 in. x Φ 10.24 in.)	465 mm x Φ 260 mm (18.31 in. x Φ 10.24 in.)	465 mm x Φ 260 mm (18.31 in. x Φ 10.24 in.)
Splicing Capacity		48 core wires	144 core wires	192 core wires	240 core wires
Number of Functional Modules	Splicing Tray	4	6	8	10
	Straight-through tray	1	1	1	1
Number of Optical Cable Holes	Straight-Through Hole	1	1	1	1
	Common Cable Hole	4	6	6	6

 **NOTE**

- SSC2131-Y name rules: "SSC" represents the Splitting and Splicing Closure, "2" represents that the closure is a usual one, "1" represents that the closure is a dome closure, "31" represents sequence number of the product, "Y" represents the splicing capacity of the product.
- The SSC2131-144, SSC2131-192, and SSC2131-240 closures have the same dimensions.

2.2 Structure

Exterior

[Figure 2-1](#) shows the exteriors of various SSC2131 closures.

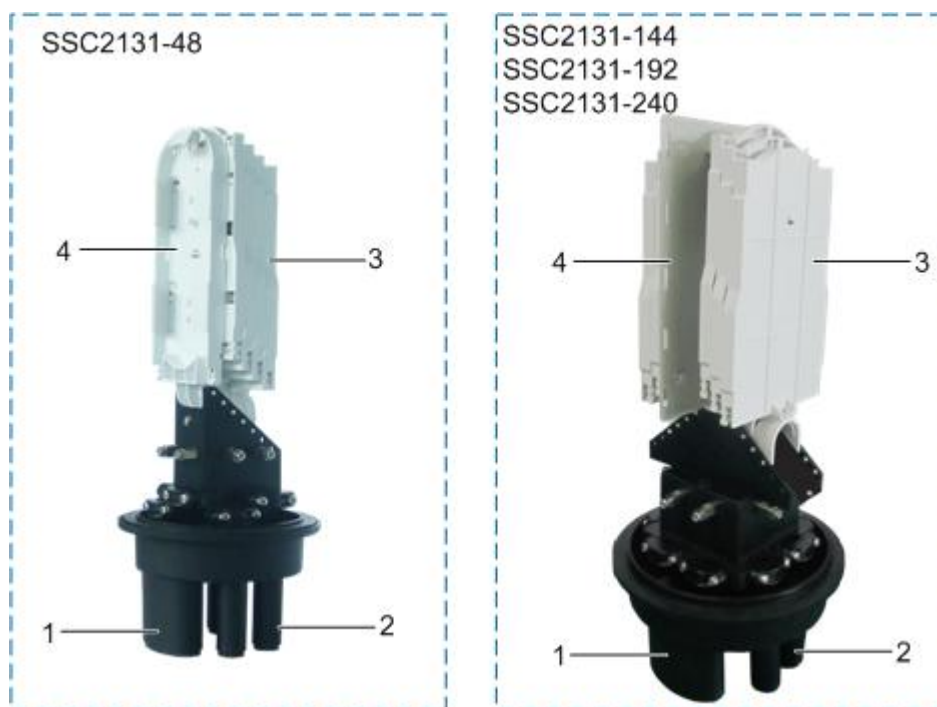
Figure 2-1 Exteriors of various SSC2131 closures



Interior

The SSC2131 closure consists of the splicing tray and the straight-through tray. [Figure 2-2](#) shows the interiors of various SSC2131 closures.

Figure 2-2 Interiors of various SSC2131 closures



1. Straight-through hole 2. Common cable hole 3. Splicing tray 4. Straight-through tray

Table 2-2 lists the functions of components inside the SSC2131 closure.

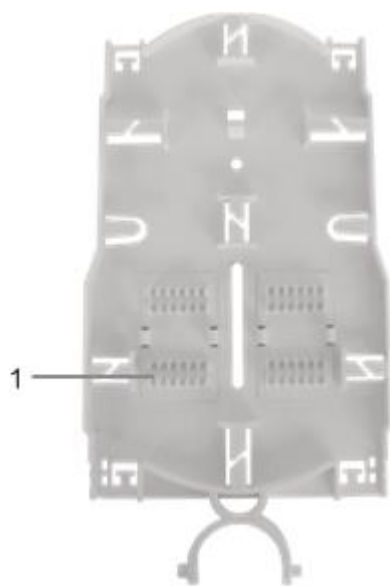
Table 2-2 Functions of components inside the SSC2131 closure

Component	Function
Straight-through hole	Each straight-through hole supports one optical cable with a diameter ranging from 10 mm (0.39 in.) to 17.5 mm (0.69 in.).
Common cable hole	Each common cable hole supports one optical cable with a diameter ranging from 10 mm (0.39 in.) to 17.5 mm (0.69 in.).
Splicing tray	The splicing tray provides spaces for protecting and coiling optical fibers and splices a maximum of 24 core wires. <ul style="list-style-type: none"> • Each SSC2131-48 splicing tray splices 12 core wires. • Each splicing tray of the SSC2131-144, SSC2131-192, or SSC2131-240 splices 24 core wires.
Straight-through tray	The tray provides a space for coiling straight-through optical fibers.

Splicing Tray

Figure 2-3 shows the splicing tray of the SSC2131 closure.

Figure 2-3 Splicing tray



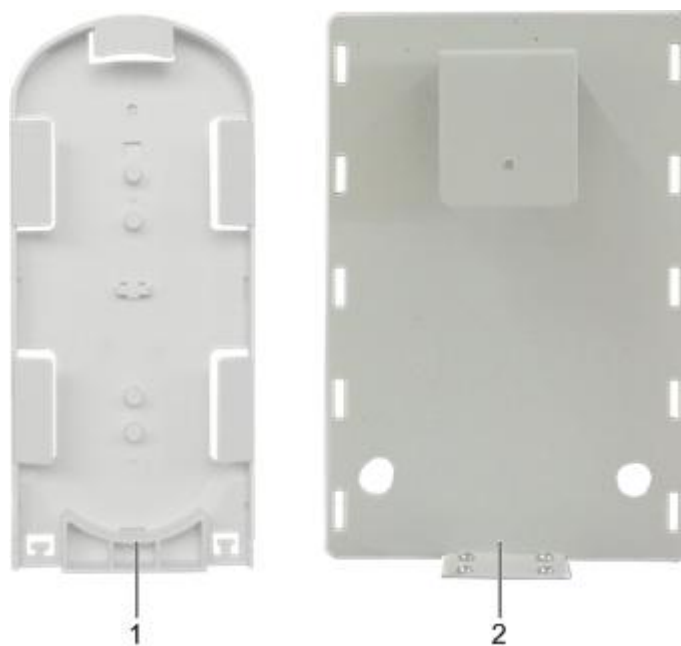
1. Clamping slot

The splicing tray of the SSC2131 closure has 12 clamping slots. Each clamping slot can clamp two splicing protection tubes.

Straight-Through Tray

Figure 2-4 shows the straight-through tray of various SSC2131 closures.

Figure 2-4 Straight-through tray of various SSC2131 closures



1. Straight-through tray of the SSC2131-48 closure

2. Straight-through tray of the SSC2131-144, SSC2131-192, or SSC2131-240 closures

3 Application Scenarios

3.1 Overview

The SSC2131 closure is applicable to the feeder cable and the distribution cable in the FTTx-ODN and coils straight-through optical cables and splices and connects branching optical cables.

3.2 Application Scenarios

Figure 3-1 shows the typical application scenario of the SSC2131 closure.

Figure 3-1 Typical application scenario of the SSC2131 closure

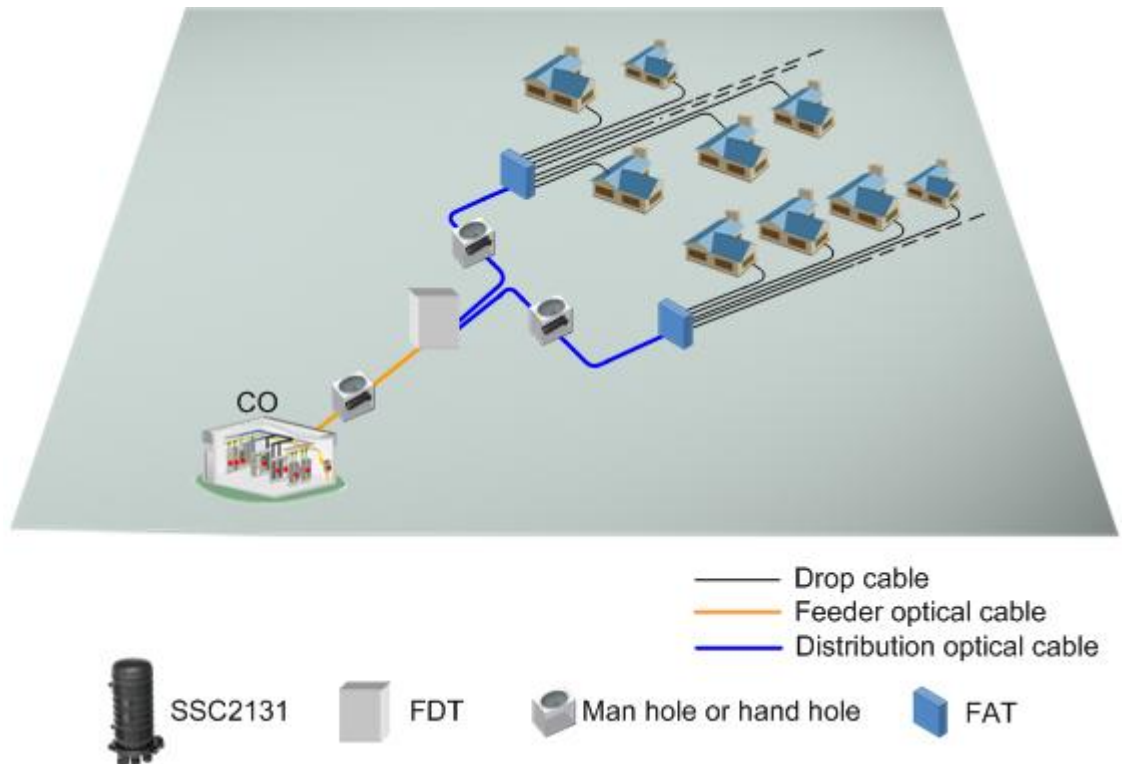


Figure 3-2 shows a wall-mounted SSC2131 closure in a man hole or hand hole.

Figure 3-2 Wall-mounted SSC2131 closure in a man hole or hand hole



4 Typical Configurations

The splicing capacity of the SSC2131 closure depends on the number of splicing trays configured. [Table 4-1](#) describes the typical configurations of the SSC2131 closure.

Table 4-1 Typical configurations

Component	Quantity (in Full Configurations)		Capacity	Function
Cover	1		N/A	Protects internal components.
Bottom	1		N/A	Secures internal components.
Hoop	1		N/A	Secures the case and the bottom.
Sealing ring	1		N/A	Seals the shell.
Splicing tray	SSC2131-48	4	12 x 4 = 48	Splices and coils optical fibers.
	SSC2131-144	6	24 x 6 = 144	
	SSC2131-192	8	24 x 8 = 192	
	SSC2131-240	10	24 x 10 = 240	
Straight-through tray	1		N/A	Coils straight-through optical cables.
Ground routing device	1		N/A	Connect the metal components in the closure to the ground.
Valve mouth	1		N/A	Fills gas to test the sealing performance.
Wall-mounted attachment	1		N/A	Is mounted on the wall.

5 Technical Specifications

5.1 Performance Specifications

Table 5-1 lists the technical specifications of the SSC2131 closure.

Table 5-1 Technical specifications

Item		Specifications
Dimensions (H x D)	SSC2131-48	450 mm x Φ 230 mm (17.72 in. x Φ 9.06 in.)
	<ul style="list-style-type: none"> • SSC2131-144 • SSC2131-192 • SSC2131-240 	465 mm x Φ 260 mm (18.31 in. x Φ 10.24 in.)
Packing dimensions (H x W x D)	SSC2131-48	465 mm (18.31 in.) \times 235 mm (9.25 in.) \times 205 mm (8.07 in.)
	<ul style="list-style-type: none"> • SSC2131-144 • SSC2131-192 • SSC2131-240 	480 mm (18.90 in.) \times 275 mm (10.83 in.) \times 245 mm (9.65 in.)
Net weight (including attachments)	SSC2131-48	2 kg (4.41 lb)
	SSC2131-144	3.5 kg (7.72 lb)
	SSC2131-192	3.6 kg (7.94 lb)
	SSC2131-240	3.7 kg (8.16 lb)
Sealing performance		40 kPa No bubble in 15 minutes
Operating temperature		-30 $^{\circ}$ C to +60 $^{\circ}$ C (-22 $^{\circ}$ F to +140 $^{\circ}$ F)
Storage temperature		-40 $^{\circ}$ C to +70 $^{\circ}$ C (-40 $^{\circ}$ F to 158 $^{\circ}$ F)
Humidity		95% RH
Atmospheric pressure		76 kPa to 106 kPa
Closure	Optical fiber diameter	Φ 10 mm to Φ 17.5 mm (Φ 0.39in. to 0.69 in.)

Item		Specifications
	Installation	Mounted on a wall
	Materials	Compound polypropylene (PP)
	Color	Black
Splicing tray	Capacity	24 core wires
	Materials	Acrylonitrile butadiene styrene (ABS)
Straight-through tray	Materials	<ul style="list-style-type: none"> • SSC2131-48: ABS • Other models: metal sheets

5.2 Standards Compliance

Table 5-2 lists the standards that the SSC2131 closure complies with.

Table 5-2 Standards

Name	Description
ITU T L.13 (Partially met)	Performance requirements for passive optical nodes: Sealed closures for outdoor environments

A Acronyms and Abbreviations

A

ABS acrylonitrile butadiene styrene

F

FTTx fiber to the home/premise/unit/curb/building/neighborhood

O

ODN optical distribution network

P

PP polypropylene