# SSC2801-TM-2 Datasheet 01

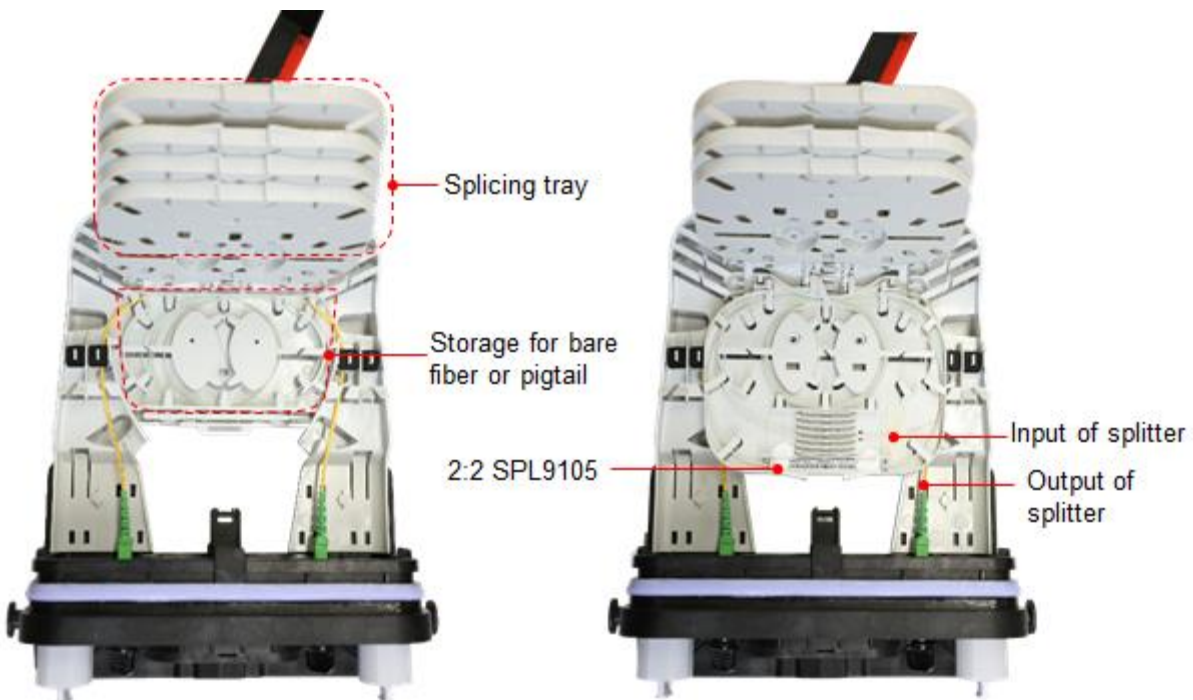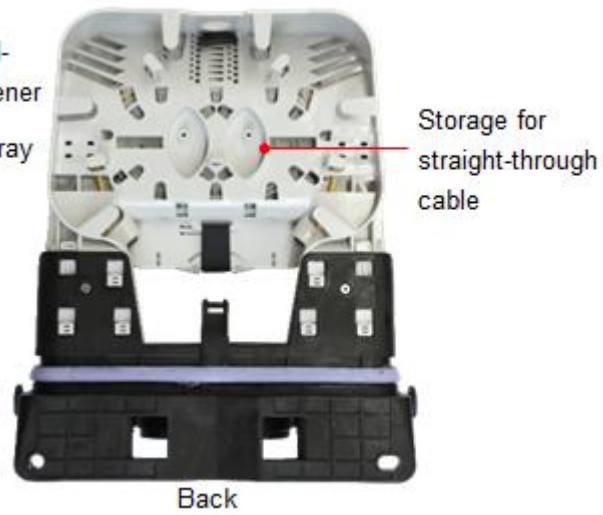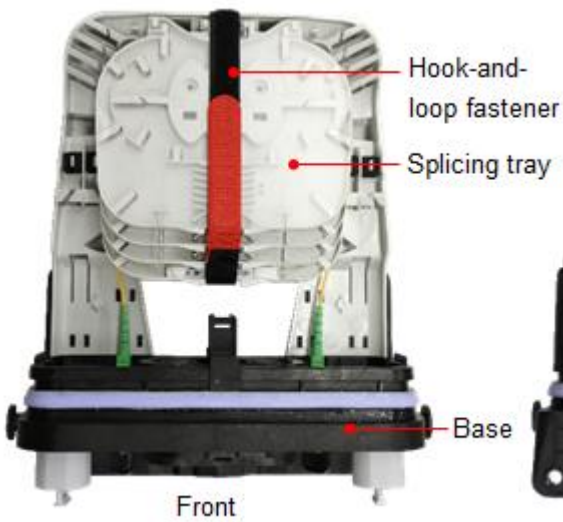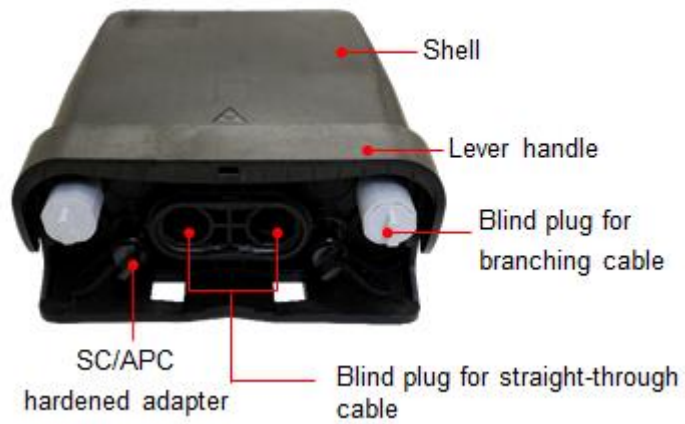Building an Efficient Fiber Infrastructure.

Overview

The SSC2801-TM-2 is used for data backhaul of enterprise network highway/railway cameras and APs. It supports deployment of straight-through, branching, and FastConnect optical cables, and is mainly used as a Hub Box in low-density access, chain deployment, branching, and cable distribution scenarios.
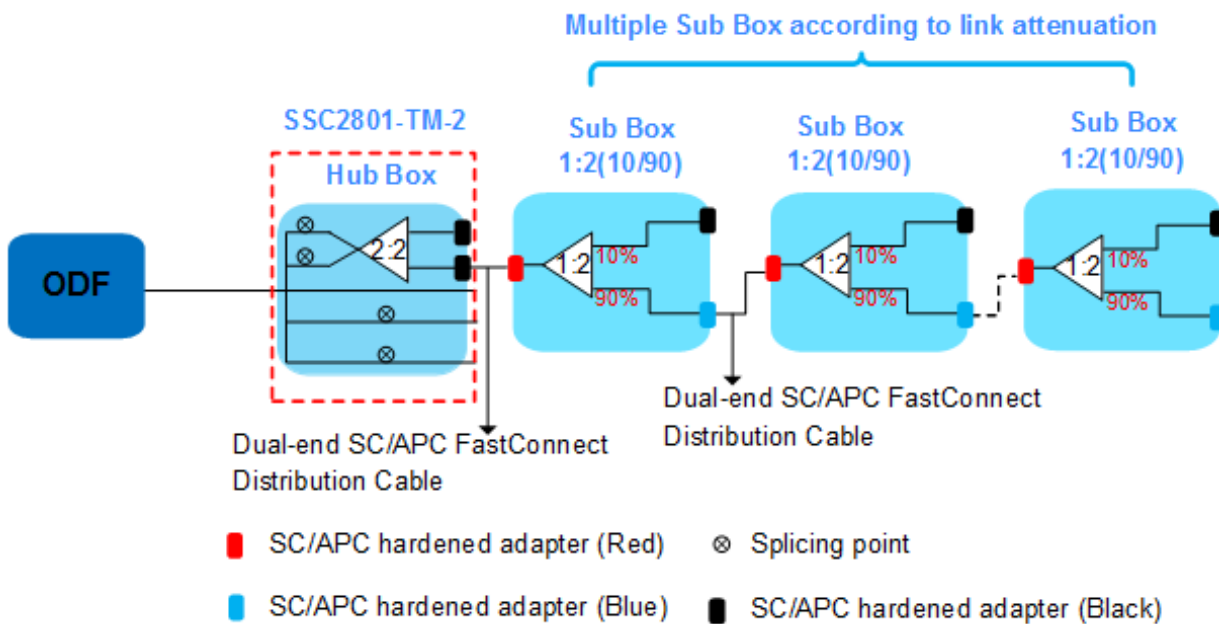
Features & Benefits

- Tool-free design, easily be opened and closed by the lever handle.
- Plug and play, FastConnect drop cable instead of splicing, and can be installed without opening the closure.
- FastPlug realizes cable fastening and sealing outside the closure, enabling fast installation.
- Supports dispatching fibers from same loose tube into different trays.
- Supports pole, wall, and aerial cable mounting.
- Supports overground, underground, manhole, and hand hole installation.
- Small size and elegant appearance.
- IP68 protection.

Structure

Shell

Lever handle

Blind plug for branching cable

SC/APC hardened adapter

Blind plug for straight-through cable

Hook-and-loop fastener

Splicing tray

Base

Front

Storage for straight-through cable

Back

Splicing tray

Storage for bare fiber or pigtail

2:2 SPL9105

Input of splitter

Output of splitter

Specifications

Model	SSC2801-TM-2
Distribution capacity	2 cores (SC/APC hardened adapter)
Splicing capacity	48 cores
Splitter capacity	1 PCS 2:2 SPL9105
Type of splicing tray	FSM2107-12
Splicing capacity per tray	12 cores, 1 slot for SPL
Max. tray qty.	4
Optical cable inlets and outlets	1 PCS FP-S01 suitable for Φ6 mm to Φ18 mm straight-through cable
	2 PCS FP-B01 suitable for Φ5 mm to Φ12 mm branching cable
	2 PCS SC/APC hardened adapters
Installation mode	Pole, wall, aerial cable mounting
Application scenario	Overground, underground, manhole/hand hole installation
Dimensions (H x W x D; mm)	260 x 208 x 92 (without lever handle) 260 x 224 x 98 (with lever handle)
Package dimensions (H x W x D; mm)	355 x 237 x 126
Net weight (unit: kg)	1.5
Gross weight (unit: kg)	2.2
Materials	Plastic: Reinforced PP Metal: Stainless steel 304
Color	Black
Protection rating	IP68
Impact resistance	IK10
Flame-retardant rating	UL94-HB
RoHS and REACH	Compliant
Sealing mode	Mechanical
Adapter type	SC/APC hardened adapters

Environmental Parameters

Operating temperature	-40ºC to +65ºC
Storage temperature	-40ºC to +70ºC
Relative humidity	95% (+40ºC)
Atmospheric pressure	70 kPa to 106 kPa

Schematic Diagram

⊗   Splicing point

⊏⊐   Output of SPL: SC/APC hardened adapter
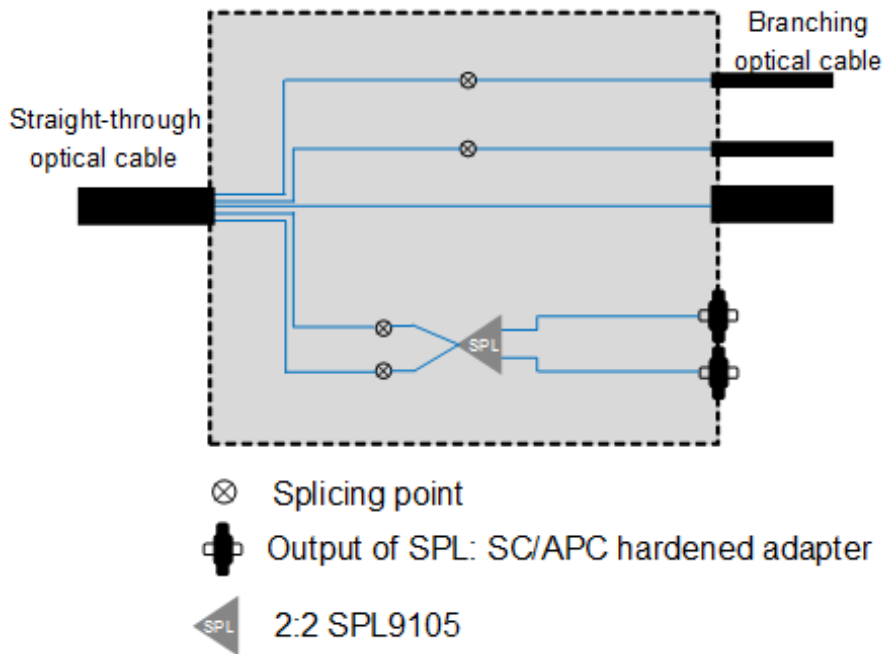
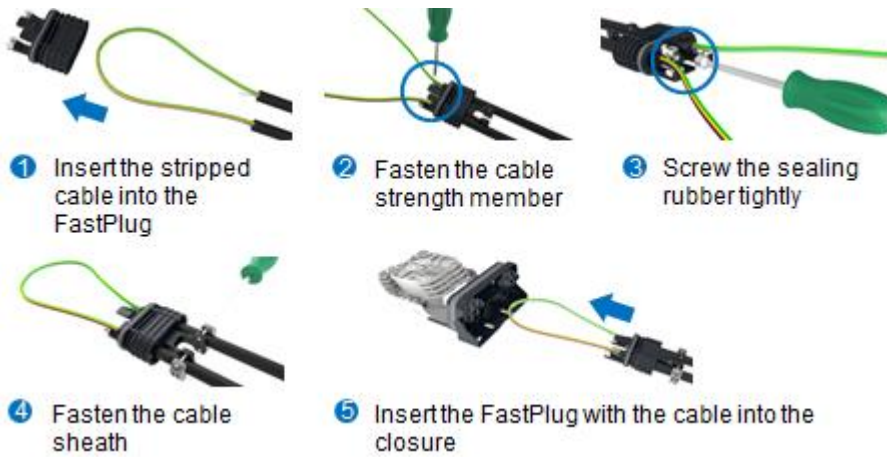◁   2:2 SPL9105

FastPlug Datasheet

Structure

FP-S01   FP-B01

Fast installation

Fast installation, fastening, and sealing of straight-through optical cable with the FastPlug.

① Insert the stripped cable into the FastPlug

② Fasten the cable strength member

③ Screw the sealing rubber tightly

④ Fasten the cable sheath

⑤ Insert the FastPlug with the cable into the closure

2:2 SPL9105 Datasheet

Overview

SPL9105 series bare optical splitters feature a compact size to implement the optical splitting function.

Features & Benefits

Product series:

- Connectors: SC/APC
- Splitting ratio: 2:2 50/50
- Standard pigtail length: 1.0 m

Flexible application:

- Low insertion loss and better uniformity

Structure

SPL9105 SC/APC 2:2 PLC

Specifications

Splitting ratio	Dimensions (H x W x D; unit: mm)	Fiber type	Pigtail length (m)	Pigtail diameter (mm)	Connector
2:2 50/50 PLC	4 × 7 × 60	G.657A1	Input: 1.0 ± 0.05 Output: 1.0 ± 0.05	0.9	Input: None Output: SC/APC

Performance Parameters

Splitting ratio	Operating bandwidth (nm)	Operating wavelength (nm)	Insertion loss with connector (dB)	Return loss (dB)	Uniformity (dB)	PDL (dB)	Directivity (dB)
2:2 50/50 PLC	1260 to 1650	1310/1490/1550	≤ 4.2	≥55 (APC)	≤ 0.8	≤ 0.2	≥55

📖 **NOTE**

1. The preceding results are from tests carried under the 1310/1550 nm wavelength and room temperature..

2. The preceding insertion loss includes the insertion loss of the connectors.

3. The end faces of connectors must be cleaned before the test.

Environmental Parameters

Storage temperature	-40ºC to +85ºC
Operating temperature	-40ºC to +85ºC
Relative humidity	≤ 95%
Atmospheric pressure	70 kPa to 106 kPa

Splicing Tray Datasheet

Structure

FSM2107-12

Specifications

Item	FSM2107-12
Splicing capacity per tray (unit: core)	12
Splitter capacity	1 PCS 2:2 SPL9105
Dimensions (H x W x D; unit: mm)	134 x 115 x 8
Net weight (unit: g)	26
Material	PC+ABS
Color	Cool Gray 3C