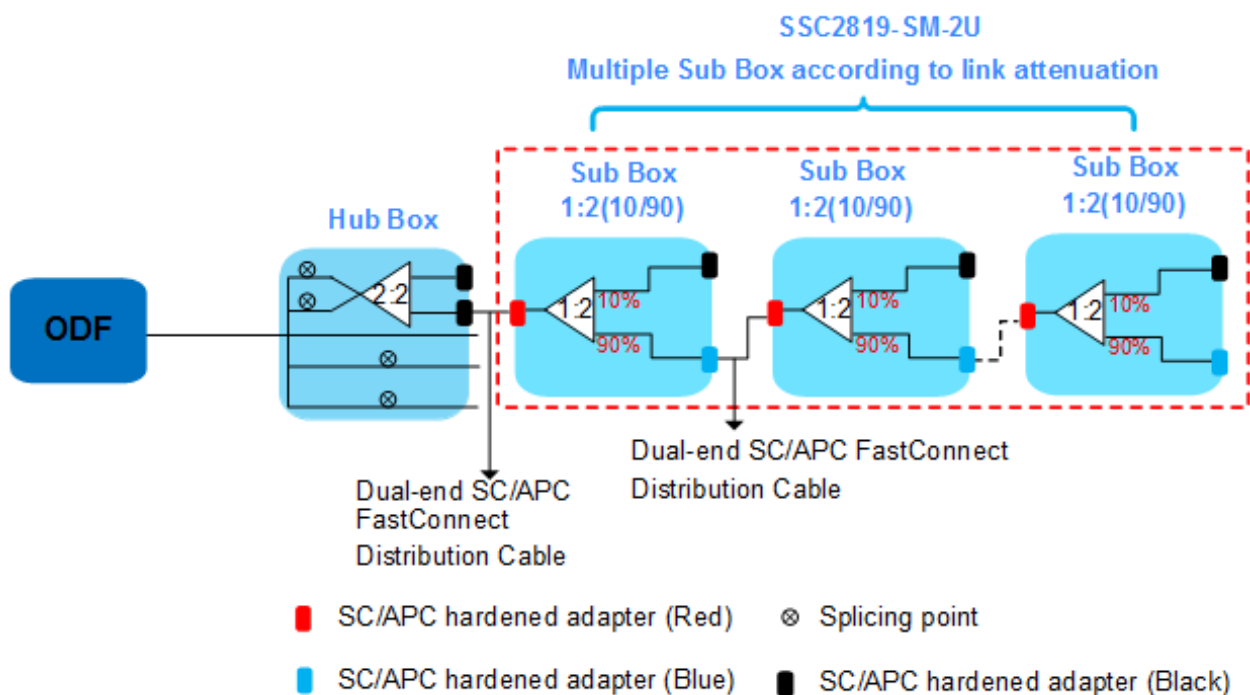


SSC2819-SM-2U Datasheet 01

Building an Efficient Fiber Infrastructure.

Overview

The SSC2819-SM-2U is used for data backhaul of enterprise campus, highway, and tower cameras and APs. It is mainly used as a Sub Box with uneven splitting in low-density access, chain deployment, and full-process pre-connection scenarios.



Features & Benefits

- Simplified design, small size and weight, easy to carry onsite.
- Full sealing design, un-openable for high anti-thief performance.
- Fully pre-connected product, no need reopening for fiber peeling, splicing and sealing.
- IP68 protection, applicable to various scenarios, including overground, underground, hand hole.
- Supports multiple installation modes, such as pole or wall mounting.
- Use environmentally friendly materials, meeting ROHS standards.
- Integrated 1:2 FBT uneven splitter with uniform loss in full wavelength, enabling smooth business evolution.

Structure



Specifications

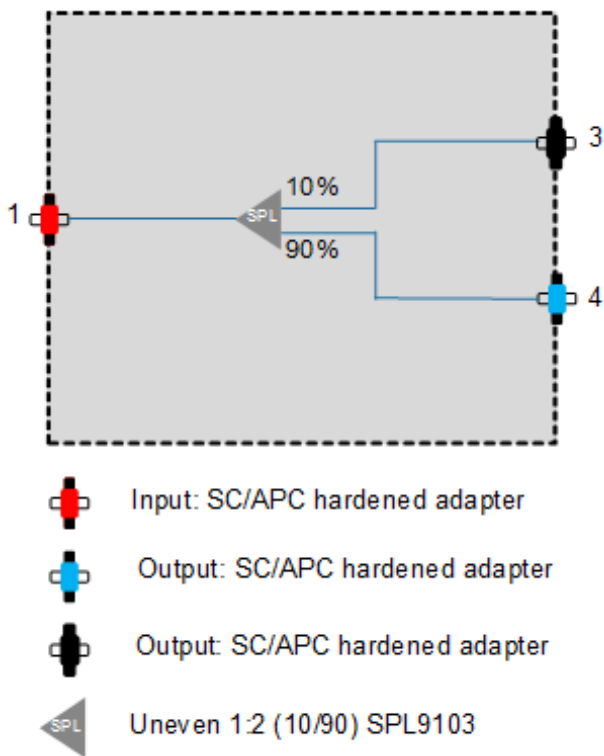
| Model | SSC2819-SM-2U |
|------------------------------------|---|
| Distribution capacity | 2 core (SC/APC hardened adapter) |
| Splicing capacity | 2 cores |
| Splitter capacity | 1 PCS uneven 1:2 (10/90) SPL9103 |
| Optical cable inlet | 1 PCS SC/APC hardened adapter (red) for FastConnect distribution cable |
| Optical cable outlet | <ul style="list-style-type: none"> 1 PCS SC/APC hardened adapter (blue) for FastConnect distribution cable 1 PCS SC/APC hardened adapter (black) for FastConnect drop cable |
| Installation mode | Pole or wall mounting |
| Application scenario | Overground, underground, hand hole installation |
| Dimensions (H x W x D; mm) | 187 x 131 x 81 |
| Package dimensions (H x W x D; mm) | 255 x 195 x 200 |
| Net weight (unit: kg) | 0.58 |
| Gross weight (unit: kg) | 1.1 |
| Case materials | PP+GF (30%) |
| Splicing tray materials | PC+ABS |

| | |
|-------------------------------|--------------------------|
| Model | SSC2819-SM-2U |
| Color | Black |
| Protection rating | IP68 |
| Resisting impact | IK09 |
| Flame-retardant rating | UL94-HB |
| RoHS and REACH | Compliant |
| Adapter type | SC/APC hardened adapters |

Environmental Parameters

| | |
|------------------------------|-------------------|
| Operating temperature | -40°C to +65°C |
| Storage temperature | -25°C to +70°C |
| Relative humidity | 95% (+40°C) |
| Atmospheric pressure | 70 kPa to 106 kPa |

Schematic Diagram



SPL9103 Datasheet

Overview

SPL9103 uneven bare splitter feature a compact size and is typically installed in the FAT/FDB/SSC to implement the optical splitting function with a splitting ratio of 1:2.

Features & Benefits

Product series:

- Connectors: SC/APC
- Splitting ratio: 1:2 10/90
- Standard pigtail length: 1.0 m

Flexible application:

- Low insertion loss and better uniformity
- Uneven optical splitting

Structure



SPL9103 SC/APC 1:2 10/90 FBT

Specifications

| Splitting ratio | Dimensions (H x W x D; unit: mm) | Fiber type | Pigtail length (m) | Pigtail diameter (mm) | Connector |
|-----------------|----------------------------------|------------|---|-----------------------|---------------------------------|
| 1:2 10/90 FBT | ≤ D3 × 60 | G.657A1 | Input: 1.0 ± 0.05 Output: 1.0 ± 0.05 | Φ0.9 | Input: SC/APC Output: SC/APC |

Performance Parameters

| Splitting ratio | Operating bandwidth (nm) | Operating wavelength (nm) | Insertion loss with connector (dB) | | Return loss (dB) | PDL (dB) | | Directivity (dB) |
|-----------------|--------------------------|---------------------------|------------------------------------|--------|------------------|----------|--------|------------------|
| | | | 10 | ≤ 10.9 | | 10 | ≤ 0.15 | |
| 1:2 10/90 FBT | 1260 to 1650 | 1310, 1490, 1550 | 90 | ≤ 0.9 | ≥ 55 (APC) | 90 | ≤ 0.1 | ≥ 55 |
| | | | 10 | ≤ 10.9 | | 10 | ≤ 0.15 | |

NOTE

1. The preceding results are from tests carried under 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 | -40°C to +85°C |
| Operating temperature | -40°C to +85°C |
| Relative humidity | ≤ 95% |
| Atmospheric pressure | 70 kPa to 106 kPa |

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Huawei Technologies Co., Ltd.

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

Website: www.huawei.com