

Specification for 1xN Compact Splitter Module CPLC-1x**-***-***-**-1

1. General

This specification describes the Compact Splitter Module used for branching of optical signal in the outside plant of an FTTH network.

Part Number: CPLC-1xWW-XXX-YYY-Z-1

where,

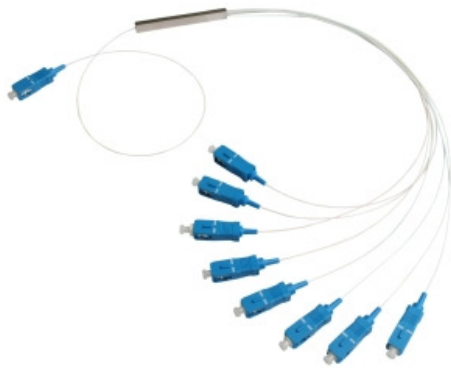
WW : Splitter output (e.g. 2, 4, 8, 16)

XXX : SCU – SC/UPC; SCA – SC/APC

YYY : Length of Optical Fiber Cable (e.g. 150 = 1.5m)

Z : Case size

2. Structure



| Type | Case type | Case size | | Case color | Connector type | Cord |
|---------------|-----------|-----------|-------------------|------------|------------------|--------|
| 1:2 Splitter | SUS | D | L60 x W7 x H4mm | Silver | SC/UPC SC/APC | Ø0.9mm |
| 1:4 Splitter | | | | | | |
| 1:8 Splitter | | E | L60 x W12 x H4mm | | | |
| 1:16 Splitter | | F | L80 x W20 x H6mm | | | |
| 1:32 Splitter | | G | L100 x W40 x H6mm | | | |
| 1:64 Splitter | | | | | | |

3. Specification

The specifications of splitter module shall be shown in the following Table 1.

Table 1 Specifications of compact splitter module

| Item | 1x2 | 1x4 | 1x8 | 1x16 | 1x32 | 1x64 |
|-----------------------|-----------------|---------|---------|---------|---------|---------|
| Type | Typical | Typical | Typical | Typical | Typical | Typical |
| Wavelength | 1330nm , 1550nm | | | | | |
| Insertion Loss (dB) | ≤3.5 | ≤7.5 | ≤10.5 | ≤13.5 | ≤17.5 | ≤20.5 |
| Uniformity (dB) | ≤0.4 | ≤0.5 | ≤0.8 | ≤1.0 | ≤1.3 | ≤2.5 |
| Return Loss (dB) | ≥ 50 | | | | | |
| Directivity (dB) | ≥ 55 | | | | | |
| PDL (dB) | ≤0.1 | ≤0.2 | ≤0.3 | ≤0.3 | ≤0.3 | ≤0.4 |
| Fiber type | Singlemode | | | | | |
| Operating temperature | 0 ~ 65°C | | | | | |
| Max. humidity | 93% | | | | | |

4. Installation

Secure compact splitter module onto splitter tray using a tape. Route the cable according to assembly instructions. Apply silica glue on top of the compact splitter module to fix the position. Remove the tape.

