

Cassette SC/UPC

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Variants

1*4 1*8

Details

The **1x4 SC/UPC Cassette-Type PLC Splitter** is a compact and highly reliable passive optical device designed for evenly splitting one input fiber into four output fibers with minimal loss. Housed in a robust, modular cassette form factor, this splitter is ideal for high-density FTTx (Fiber to the x), PON(Passive Optical Network), and data center applications.

Key Features:

1. **Splitter Type:** Planar Lightwave Circuit (PLC)
2. **Configuration:** 1 input x 4 output
3. **Connector Type:** SC/UPC (blue housing, ultra physical contact)
4. **Fiber Type:** Single-mode G.657A1 or G.652D (customizable)

5. **Insertion Loss:** ? 7.3 dB (typical)
6. **Return Loss:** ? 55 dB
7. **Uniformity:** ? 0.8 dB
8. **Operating Wavelength:** 1260 nm – 1650 nm
9. **Operating Temperature:** -40°C to +85°C
10. **Form Factor:** Cassette-style ABS or LGX box (optional rack-mountable)
11. **Cable Length:** Typically 1.0m with 0.9mm or 2.0mm fiber (customizable)

Applications:

1. FTTH (Fiber to the Home) deployments
2. PON/GPON/EPON networks
3. CATV systems

4. Optical signal distribution
5. Data centers and telecom rooms
6. Test and measurement environments

Technical Overview:

Utilizing advanced silica glass waveguide technology, this 1x4 PLC splitter ensures stable performance and uniform optical signal splitting. The SC/UPC connectors provide low insertion loss and high return loss, making them suitable for sensitive optical systems. Encased in a cassette-style housing, the splitter offers ease of installation, protection from physical damage, and efficient cable management. It is compatible with patch panels, enclosures, or ODFs (Optical Distribution Frames), enabling clean and organized fiber distribution in both indoor and outdoor settings.