

PLC Splitter



Savitri Telecom offers a wide range of high-quality PLC splitters designed for long-term reliability and consistent performance. Our PLC splitter product line includes 1x2, 1x4, 1x8, 1x16, 1x32, 1x64, and 2x4, 2x8, 2x16, 2x32 splitter configurations to meet the needs of various applications.

Savitri Telecom's PLC splitter product line offers a range of high-quality splitters designed for long-term reliability and consistent performance. Our splitters provide low IL and PDL, high channel counts, wide wavelength range, and large operating temperature range. With excellent environmental and mechanical stability, our PLC splitters are suitable for a variety of applications, including FTTX, LAN, test equipment, CATV, and PONs.

Key Applications

- **FTTX (FTTP, FTTH, FTTN, FTTC):** Widely utilized in FTTX applications to distribute optical signals from the central office to end-users.
- **Local Area Networks (LAN):** Employed in LANs to split optical signals for improved connectivity and efficiency.
- **Test Equipment:** Utilized in test equipment to accurately measure optical signals.
- **CATV:** Deployed in CATV networks to distribute optical signals to multiple subscribers.
- **Analog/Digital Passive Optical Networks (PON):** Utilized in PONs to split optical signals and distribute them to multiple subscribers.

KEY FEATURES

- **Low Insertion Loss (IL) and Polarization Dependent Loss (PDL):** Provides low IL and PDL for enhanced transmission efficiency and signal quality.
- **High Reliability:** Designed and manufactured with high reliability and stability in mind, ensuring consistent performance even in harsh environments.
- **High Channel Counts:** Offers a high number of channels, crucial for applications requiring numerous connections.
- **Wide Wavelength Range:** Supports a broad range of wavelengths, making them suitable for various applications.
- **Large Operating Temperature Range:** Operates effectively across a wide temperature range, suitable for different environmental conditions.
- **Excellent Environmental and Mechanical Stability:** Manufactured with mechanical characteristics that enable fast installation and ensure long-term reliability.
- **G657A, 9/125um:** Made with high-quality G657A, 9/125um fiber for improved performance.

NOTE: The image is for reference only, actual product may differ based on customer's requirements. We customize products to meet unique specifications and ensure customer satisfaction.

Technical Specifications

1/2×N PLC Splitter Specifications (Measured at room temperature and excludes connector loss)													
Port Configuration		1x2	1x4	1x8	1x16	1x32	1x64	2x2	2x4	2x8	2x16	2x32	2x64
Fiber Type	SMF-28e or customer specified												
Operating Wavelength (nm)	1260 to 1650												
Insertion Loss (dB)	Typical	3.6	6.8	10.2	13.3	16.2	20.5	3.8	7.4	10.8	14.2	17	21
	Max	4.0	7.4	10.5	13.5	16.9	21.0	4.2	7.8	11.2	14.6	17.9	21.5
Loss Uniformity (dB)	Max	0.5	0.7	1.0	1.4	1.8	2.0	1.0	1.4	1.5	2	2.5	2.5
Return Loss (dB)	Min	55	55	55	55	55	55	50	50	50	50	50	50
Polarization Dependent Loss(dB)	Max	0.2	0.2	0.3	0.3	0.3	0.4	0.2	0.2	0.4	0.4	0.4	0.5
Directivity (dB)	Min	55	55	55	55	55	55	55	55	55	55	55	55
Wavelength Dependent Loss(dB)	Max	0.3	0.3	0.3	0.8	0.5	0.8	0.8	0.8	0.8	0.8	0.8	1
Temperature Dependent Loss (-40 to 85) (dB)	Max	0.5	0.5	0.5	0.8	0.8	1	0.5	0.5	0.5	0.8	0.8	1
Operating Temperature	-40 °C to +85 °C												
Storage Temperature	-40 °C to +85 °C												