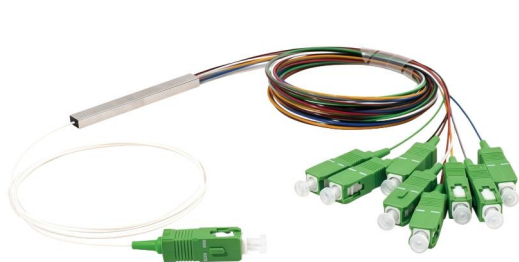


PLC Splitter

Blockless and Bare Type



Blockless Type



Bare Type

Application

- The PLC Splitter Blockless and Bare Type is a versatile optical splitter designed for reliable signal distribution in PON networks (EPON & GPON), FTTx, CATV, data centers, and optical fiber communication systems.
- It supports flexible integration with blockless type for mini steel-tube protection or bare type for direct splicing in space-constrained modules and closures.

Key Features

- The PLC splitter provides 1xN and 2xN series configurations with low insertion loss and high return loss for superior signal performance.
- It ensures excellent channel uniformity and guaranteed optical reliability across all split ratios.
- The design offers full customization of connectors, fiber diameters, fiber types, and lengths to meet diverse project needs.
- Blockless type features a compact mini steel-tube package for easy installation in splice trays and distribution boxes.
- Bare type delivers an ultra-compact chip-only format ideal for direct fusion splicing and OEM module integration.
- It operates reliably in temperatures from -40°C to +85°C with stable performance in harsh environments.
- Both types maintain low PDL, high directivity, and broad wavelength support from 1260-1650nm.

Specifications

Parameter	Dimension (mm)	Insertion Loss (dB)	Uniformity (dB)	Return Loss (dB)		PDL (dB)	Directivity (dB)
	L×W×H	MAX	MAX	UPC ≥	APC ≥	MAX	MIN
1x2	60×7×4	4.0	0.8	50	55	0.2	55
1x4		7.2	0.8	50	55	0.2	55
1x8		10.3	0.8	50	55	0.3	55
1x16	60×12×4	13.6	1	50	55	0.3	55
1x32	80×20×6	16.9	1.5	50	55	0.3	55
1x64	100×40×6	20.2	2	50	55	0.4	55
2x2	60×7×4	4.2	0.8	50	55	0.2	55
2x4		7.6	1	50	55	0.2	55
2x8		10.6	1	50	55	0.4	55
2x16	80×12×6	14.2	1.2	50	55	0.4	55
2x32	100×20×6	17.4	1.7	50	55	0.4	55
2x64	100×40×6	20.7	2.2	50	55	0.5	55

Common Parameters

- **Operating Wavelength:**
 - ◆ The operating wavelength range is applicable to all types of PLC splitters in the table, which is 1260 - 1650 nm.
- **Operating Temperature:**
 - ◆ The operating temperature range for all PLC splitters is -40°C to +85°C.
- **Storage Temperature:**
 - ◆ The storage temperature range for all PLC splitters is -40°C to +85°C.