



TECHNICAL SPECIFICATION

		PLC Splitter		
A	July 14, 2021	Bryan	Loran	Fiona



1. Cassette Type PLC Splitter, with LC/APC pigtail, G657A1 fiber, 2.0 ± 0.2 mm, pigtail length 1.5m at input port and output port,LSZH yellow jacket (pantone 136C), 1*32.

Cassette Type PLC Splitter ,with LC/APC pigtail, G657A1 fiber, 2.0 ± 0.2 mm, pigtail length 2.7m at input port and output port,LSZH yellow jacket (pantone 136C), 1*32.

1.1 General properties:



Note: the picture provides a reference only.

1.2 Technical characteristics for splitter:

Туре	1X32				
Channel wavelength(nm)	1260-1650				
Insertion loss(dB)	≤17.5				
Loss Uniformity (dB)	≤1.7				
Return loss (dB)	≥55				
Polarization dependent loss(dB)	≤0.3				
Directivity(dB)	≥55				
Operating temperature (°C)	-40~+85				
Storage temperature(℃)	-40~+85				
Note1: Focus on uniform distribution device; the fiber type is single-mode optical fiber.					
Note 2: All percenter tests with connectors					

Note2: All parameter tests with connectors.

1.3 Application

• Installed in optical cross connecting cabinet and splitting box. The color can be adjusted according to customers' requirements.

1.4 Feature

- Small size and aesthetic appearance.
- Installation quick, reliable performance, stability.
- Employ integrated optic production process.
- Wide operating wavelength range.
- Good uniformity, in particular the application of PON.
- Dimension: 120*80*18mm.



1.5 Optical Fiber:

The optical fiber shall be made of high pure silica and germanium doped silica. UV curable acrylate material is applied over fiber cladding as optical fiber primary protective coating. The detail data of optical fiber performance are shown in the following table:

G657A1 fiber

Catanami	Description		Specifications	
Category			Before cable	After cable
Optical Specifications	Attenuation	@1310 nm	≤0.35 dB/km	≤0.40 dB/km
	Attenuation	@1550 nm	≤0.21 dB/km	≤0.30 dB/km
	Zero Dispersion Wavelength		1300~1324 nm	
	Zero Dispersion Slope		≤ 0.092 ps/nm²·km	
	Cable Cutoff Wavelength (λcc)		≤1260 nm	
	Macro Bending Loss			
	(10 turns; Φ30 mm) @1550 nm		≤ 0.25 dB	
	(10 turns; Ф30 mm)	@1625 nm	≤ 1.0 dB	
	(1 turns; Ф20 mm)	@1550 nm	≤ 0.75 dB	
	(1 turns; Ф20 mm)	@1625 nm	≤ 1.5 dB	
	Mode Field Diameter @1310 nm		(8.6~9.5)±0.4µm	
Dimensional Specifications	Cladding Diameter		125±1µm	
	Cladding Non Circularity		≤1.0%	
	Core/Clad Concentricity Error		≤0.5µm	
Mechanical Specifications	Proof Stress		≥1.05%	