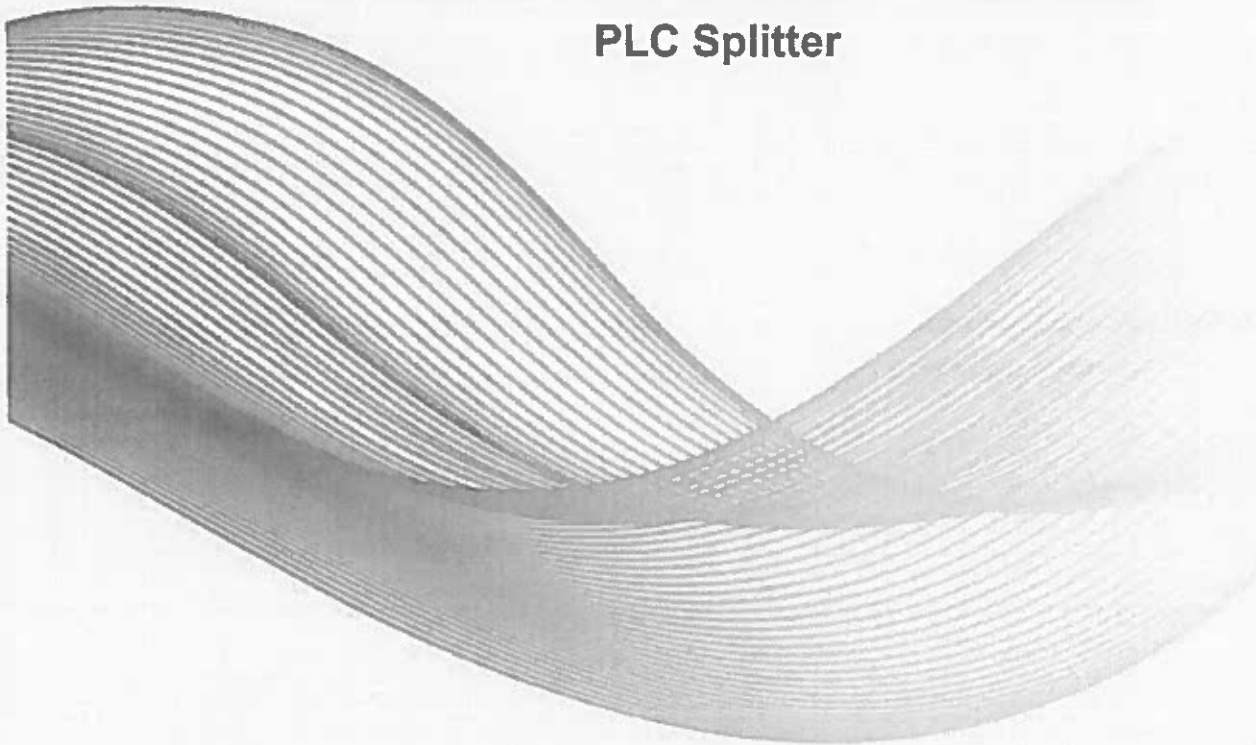


Spec No.: ZTT 22-XJ19646



# TECHNICAL SPECIFICATION

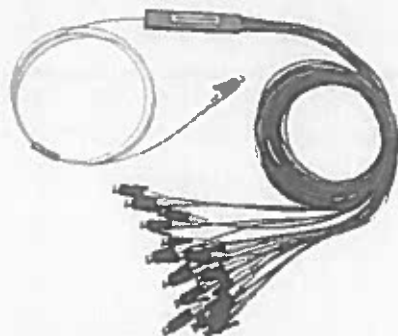
## PLC Splitter



B	December 14, 2022	Bryan	Loran	Fiona
Version	Date	Prepared	Reviewed	Approved

**1. Optical Mini Module PLC Splitter, input port LC/APC pigtail length 1.5m,output port LC/APC pigtail length 1.5m,OD:0.9±0.08mm, G657A1 fiber, colored hytrel.**

**1.1 General properties:**



**1.2 Technical characteristics for splitter:**

Type	1X2	1X4	1X8	1X16	1X32	1X64
Channel wavelength(nm)	1260-1650					
Insertion loss(dB)	≤4.0	≤7.3	≤10.5	≤13.8	≤17.0	≤20.3
Loss Uniformity (dB)	≤0.6	≤0.6	≤0.8	≤1.2	≤1.5	≤1.8
Return loss (dB)	≥55					
Polarization dependent loss(dB)	≤0.3	≤0.3	≤0.3	≤0.3	≤0.3	≤0.3
Directivity(dB)	≥55					
Operating temperature (°C)	-40~+85					
Storage temperature(°C)	-40~+85					
Note 1: Above insertion loss values are measured at indoor temperature,not including the connector loss;						
Note 2: Insertion loss of PLC splitter with connectors, should plus 0.2dB base on above Insertion loss.						

**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.
- Color code:red, green, blue, yellow,white, grey, brown, violet.
- Standard compliance: Telecordia GR-1209 and GR-1221.
- Installation quick, reliable performance, stability.
- Employ integrated optic production process.
- Wide operating wavelength range.
- Good uniformity, in particular the application of PON.
- Dimnesion:4\*4\*40mm for 1\*2 Splitter, 4\*7\*50mm for 1\*4 Splitter .
- Comply with RoHS2.0.

1.5 Optical fiber

G.657A1 Fiber

Category	Description	Specifications	
		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/nm <sup>2</sup> ·km	
	Cable Cutoff Wavelength (λ <sub>cc</sub> )	≤1260 nm	
	Macro Bending Loss (10 turns; Φ30 mm) @1550 nm	≤ 0.25 dB	
	(10 turns; Φ30 mm) @1625 nm	≤ 1.0 dB	
	(1 turns; Φ20 mm) @1550 nm	≤ 0.75 dB	
(1 turns; Φ20 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%	