

TECHNICAL SPECIFICATION

Modular Type Splitter



Revision	Date	Prepared	Checked	Approved	Remark
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1. General

1.1 Scope

The function, size, test and package information of the PLC splitter and the FBT splitter are specified in the specification. PLC splitter includes modular type, cassette type, rack mounted type, tray type, chip type. Technical requirements and test methods, the reliability test conditions and requirements, inspection rules and signs, packaging are specified in this Section.

1.2 Definition

Aim to implement specific wavelengths of light signals of the power series and the redistribution function of optical passive components.

1.3 Classification

Classify by the process principle: PLC splitter, FBT splitter.

Classify by Installation method: modular type, cassette type, rack mounted type, tray type, chip type.

1.4 Structure

The Splitter shall consist of waveguides chip, optical fiber array and pigtailed.

1.5 Quality

Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

1.6 Reliability

NBSensures product reliability through rigorous qualification testing of each product family. Both initial and periodic qualification testing are performed to assure the performance and durability in the field environments.

1.7 Relevant standards

YD/T 2000.1-2009	Integrated optical path devices based on planar light wave circuit Part 1: Optical power splitter based on PLC technology
IEC61300-2-5	Fiber optic interconnecting devices and passive components-Basic test and measurement procedures-Part 2-5:Tests–Torsion
IEC61300-2-17	Fiber optic interconnecting devices and passive components – Basic test and measurement procedures–Part 2-17Tests –Cold
IEC61300-2-22	Fiber optic interconnecting devices and passive components-Basic test and measurement procedures-Part 2-22:Tests–Change of temperature
IEC61300-3-1	Fiber optic interconnecting devices and passive components-Basic test and measurement procedures–Visual examination
IEC61300-3-6	Fiber optic interconnecting devices and passive components – Basic test and measurement procedures- Examinations and measurements-Return loss
IEC61300-3-34	Fiber optic interconnecting devices and passive components – Basic test and measurement procedures- Examinations and measurements–Attenuation of random mated connectors.



2.Modular type PLC splitter1*32, without connectors, tight buffer pigtail at input and output ports,0.9mm±0.08mm, length 1m, G.652D fiber, hytel sheath ,white color(RAL9010)

2.1 General properties:



Modular PLC Splitter(actually,without connectors)

Note: the picture provides a reference only!

2.2 Technical characteristics for splitter:

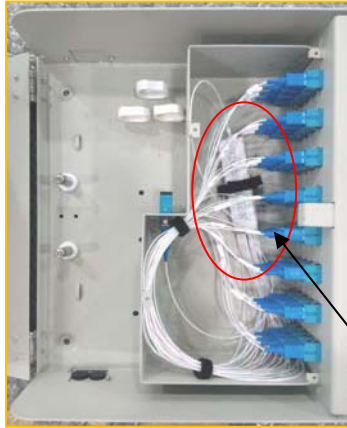
Type	1X32
Channel wavelength(nm)	1260-1650
Insertion loss(dB)	≤17.0
Return loss (dB)	≥50
Loss Uniformity (dB)	≤1.6
Polarization dependent loss(dB)	≤0.3
Directivity(dB)	≥55
Operating temperature (°C)	-40~+85
Storage temperature(°C)	-40~+85

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.

3 Application

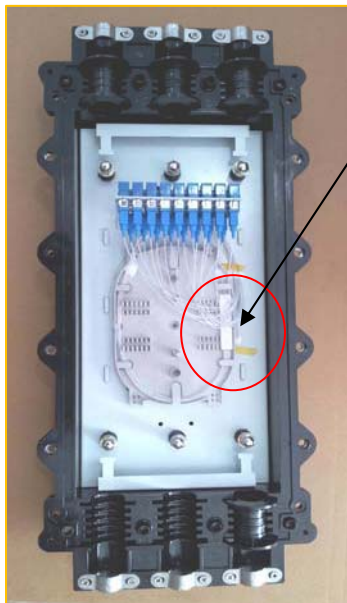
Installed in 19" standard rack, fiber distribution box, splitting type joint box or other splitting box where the space is limited.



Optical Terminal Box



Optical Distribution Box



Optical Joint Box



Optical Splitting Box

PLC
Splitter

4. Package Information



Paste the serial number



Place splitter into box



Check packing list



Put inner box into outer carton box



Binding the outer carton box with ties



Stretch outer box with film (without any)

Note:

1. The picture provides a reference only.
2. The dimensions are according to the products' or customers' requirements.