

# PLC Optial Fiber Splitter with Steel Tube

## 1、 Cable Drawing



## 2、 Description

(PLC splitter) Planar lightwave circuit splitter, a type of optical power management device that is fabricated using silica optical waveguide technology. Steel Tube splitter has a more compact stainless tube package which provides stronger fiber protection, and its fiber ends are all terminated with fiber optic connectors. XDK provides whole series of 1xN and 2xN splitter products that are tailored for specific applications.

## 3、 Features

- Low insertion loss and low PDL
- High channel counts
- Exceptional reliability and stability
- Wide operating wavelength
- Wide operating temperature
- Compact design

## 4、 Application

- CATV, LAN, WAN network
- FTTX Systems
- Optical fiber communication system
- Telecommunication network
- EPON/GPON

## 5. Specification

1×N PLC Splitter							
Parameters	1×2	1×4	1×8	1×16	1×32	1×64	1×128
Operating Wavelength (nm)	1260~1650						
Fiber Type	G657A1 or customer specified						
Insertion Loss (dB) (P/S Grade)	≤3.8/4.0	≤7.1/7.3	≤10.2 /10.5	≤13.5 /13.7	≤16.5 /16.9	≤20.5 /21.0	≤23.8 /24.2
Loss Uniformity (dB)	≤0.4	≤0.6	≤0.8	≤1.2	≤1.5	≤2.0	≤2.5
Polarization Dependent Loss (dB)	≤0.2	≤0.2	≤0.2	≤0.25	≤0.3	≤0.35	≤0.4
Return Loss(dB) (P/S Grade)	≥55/50	≥55/50	≥55/50	≥55/50	≥55/50	≥55/50	≥55/50
Directivity (dB)	≥55	≥55	≥55	≥55	≥55	≥55	≥55
Wavelength Dependent Loss (dB)	≤0.3	≤0.3	≤0.3	≤0.5	≤0.5	≤0.5	≤0.5
Temperature Stability (-40~85°C) (dB)	≤0.4	≤0.4	≤0.4	≤0.5	≤0.5	≤0.5	≤0.5
Operating Temperature(°C)	-40~+85						
Storage Temperature(°C)	-40~+85						

2×N PLC Splitter							
Parameters	2×2	2×4	2×8	2×16	2×32	2×64	2×128
Operating Wavelength (nm)	1260~1650						
Fiber Type	G657A1 or Customer specified						
Insertion Loss (dB) P/S Grade)	≤3.9/4/2	≤7.3/7.6	≤10.5/11	≤14.4 /14.6	≤17.4 /17.9	≤21.0/21.5	≤24.5 /25.0
Loss Uniformity (dB)	≤0.6	≤1.0	≤1.2	≤1.5	≤1.8	≤2.2	≤2.5
Polarization Dependent Loss (dB)	≤0.2	≤0.2	≤0.2	≤0.3	≤0.3	≤0.3	≤0.4
Return Loss(dB)(P/S Grade)	≥55/50	≥55/50	≥55/50	≥55/50	≥55/50	≥55/50	≥55/50
Directivity (dB)	≥55	≥55	≥55	≥55	≥55	≥55	≥55
Wavelength Dependent Loss (dB)	≤0.3	≤0.4	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
Temperature Stability (-40 ~ 85 °C)(dB)	≤0.5						
Operating Temperature (°C)	-40 ~ 85						

Storage Temperature (°C)	-40 ~ 85
Max. Power(mW)	500

**Notes:**

1. All values specified are without connectors.
2. IL will increase 0.2dB when add one connector, Return Loss ≥ 55dB(APC), ≥ 50dB(UPC)
3. Customized service is available.

## 6、Package size

**Bare fiber type:**

Item	Unit	1*2/1*4/1*8	1*16/1*32	1*64	2*2/2*4/2*8	2*16 / 2*32
L*W*H	mm	40*4*4	50*7*4	60*12*4	50*4*4	60*7*4

**0.9mm Loose tube type:**

Item	Unit	1*2/1*4/1*8 2*2/2*4/2*8	1*16	1*32	1×64	2×16	2×32
L*W*H	mm	60*7*4	60*12*4 80*20*6		100*40*6	80*12*4	100*20*6