



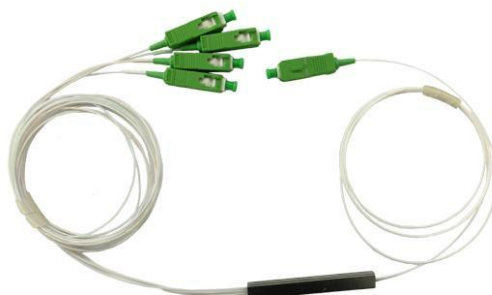
1x4 SC/APC Block Type PLC Splitter 900um

1. Features:

- Low insertion loss, Low PDL and High reliability
- High return loss and Good repeatability
- Wide wavelength range
- Excellent channel-to-channel uniformity

2. Applications:

- LAN, WAN and Metro Networks
- FTTH project & FTTX Deployments
- CATV System
- GPON, EPON
- Fiber Optic Test Equipment
- Data-base Transmit Broadband Net



3. Encapsulation Size

| Item | 1x4 |
|--------------------------|--------------------------------|
| Length*Width*Height (mm) | 55x7x4 |
| Input | 900um |
| Output | 900um |
| Fiber Length | 1m/1.2m/1.5m can be customized |

4. Specifications

| Item | 1x4 |
|--------------------------------|--|
| Fiber Type | G657A/G652D |
| Technology | PLC (Planar Lightwave Circuit) |
| Working Wavelength | 1260nm-1660nm |
| Connector | SC/APC – 8° IL ≤ 0.3dB RL ≥ 60 dB Attenuation Stable ≤ 0.1dB Operating Temp: -10°C +65°C Humidity ≤ 95% RH Pass Vibration IEC 61300-2-1 Pass Mechanism IEC 61300-2-6 Pass Fiber/Cable retention IEC 61300-2-4 Pass Change of temperature IEC 61300-2-22 |
| Standard Insertion Loss (dB) | ≤7.6 |
| P-Grade Insertion Loss (dB) | ≤7.4 |
| Uniformity (dB) | ≤0.8 |
| PDL (dB) | ≤0.2 |
| Wavelength Dependent Loss (dB) | ≤0.8 |
| Return Loss (dB) | ≥55 |



| | |
|---------------------------------|-----------------------|
| Item | 1x4 |
| Directivity (dB) | ≥55 |
| Humidity | ≤ 95% RH |
| Environment, working conditions | IEC 61753/ITU-T G.671 |
| Operating Temp. Range | -10°C~ +65°C |

5. Mechanical Requirements

| Parameter | Test condition | Specification |
|------------------------------|---|---|
| Vibration (IEC 61300-2-1) | <ul style="list-style-type: none">· Acceleration: 20 G Max.· Frequency: 20 ~ 20,000 Hz· Duration: 4 min/cycle & 4 cycles/axis | <ul style="list-style-type: none">· IL variation: ≤ 0.5 dB· RL variation: ≤ 5.0 dB |
| Side-pull | <ul style="list-style-type: none">· Single: 0.23 kg, 10 sec· Angle: 90° | <ul style="list-style-type: none">· IL variation: ≤ 0.5 dB· RL variation: ≤ 5.0 dB |
| Mechanical Shock (Impact) | <ul style="list-style-type: none">· Height: 6 ft Drop· Impact: 8 times Or· Shock Level: 500 G· No. of Shock: 5 times/dir. for 6 dirs.· Duration: 1 ms | <ul style="list-style-type: none">· IL variation: ≤ 0.5 dB· RL variation: ≤ 5.0 dB |
| Fiber Retention | <ul style="list-style-type: none">· Single: 0.45 kg, 10 sec· Ribbon: 1.55 kg, 10 sec | <ul style="list-style-type: none">· IL variation: ≤ 0.5 dB· RL variation: ≤ 5.0 dB |

6. Reliability Requirements

| Parameter | Test condition | Specification |
|--|---|---|
| Temperature Humidity Cycling (IEC 61300-2-22) | <ul style="list-style-type: none">· Temperature: -10 ~ +65°C (± 5°C)· Humidity: 10 ~ 80% RH (± 5%) | <ul style="list-style-type: none">· IL variation: < 0.2 dB |
| Water Immersion | <ul style="list-style-type: none">· Temperature: +43°C· pH: 5.5· Duration: 144 hrs | <ul style="list-style-type: none">· IL variation: < 0.2 dB |
| Salt spray | <ul style="list-style-type: none">· Temperature: +65°C (±5°C)· Duration: 120 hrs· 5% NaCl | <ul style="list-style-type: none">· IL variation: < 0.2 dB |

Note: The above parameter is for Splitter with connector. If w/o connector, insertion loss will reduce by 0.2dB.