

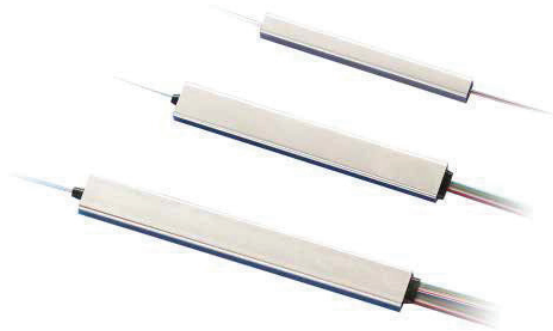
PLC Splitter

Features

- Low excess loss & High performance
- Good uniformity & Low PDL
- Small package size
- Various connector type & Package Size available

Applications

- Telecommunications networks
- CATV system
- Optical equipment
- Fiber optic sensors
- FTTH & FTTx

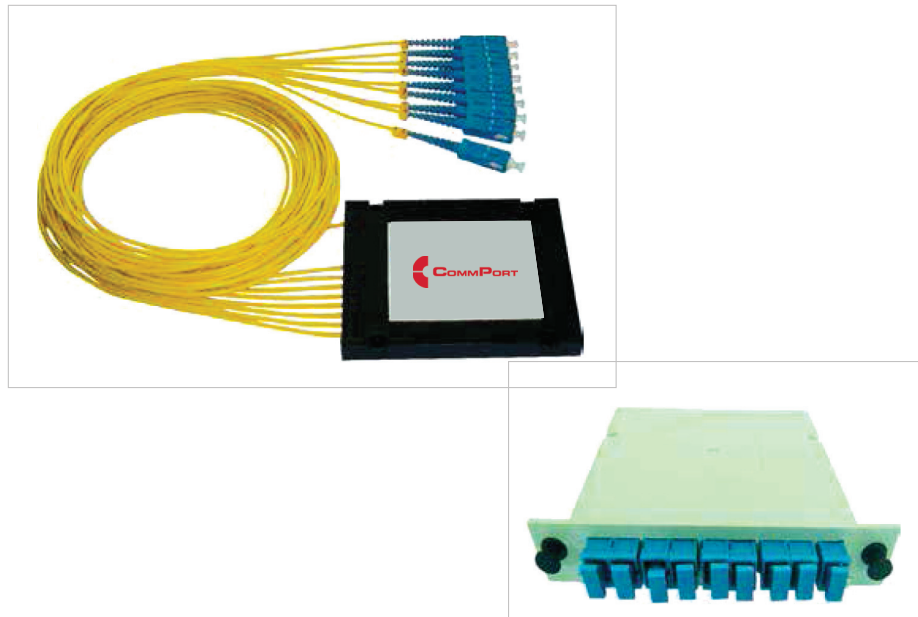


Planar lightwave circuit (PLC) splitter is fabricated using silica optical waveguide technology. Commport provides a whole series of 1xN and 2xN splitters that are tailored for specific applications. All products meet Telcordia 1209 and 1221 reliability requirements and are certified by TLC for network deployment.

Specification

| Parameters | | 1X2 | 1X4 | 1X8 | 1X16 | 1X32 | 1X64 | 2X2 | 2X4 | 2X8 | 2X16 | 2X32 |
|-------------------------------------|--------------------|-----------|---------|-----------|-----------|-----------|-----------|---------|---------|-----------|-----------|-----------|
| Operating Wavelength(nm) | | 1260~1650 | | | | | | | | | | |
| Insertion Loss(dB) | Typical | 3.6 | 7.0 | 10.0 | 13.3 | 16.3 | 20.0 | 3.7 | 7.0 | 10.8 | 13.6 | 16.8 |
| | Max(P/S) | 3,8/4,0 | 7,2/7,4 | 10,5/10,7 | 13,5/13,7 | 16,5/16,9 | 20,5/21,0 | 3,9/4,2 | 7,5/7,8 | 11,2/11,5 | 14,2/14,5 | 17,4/17,7 |
| Loss Uniformity(dB) | Typical | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 | 1.2 | 0.5 | 1.0 | 1.0 | 1.2 | 1.5 |
| | Max | 0.4 | 0.6 | 0.8 | 1.2 | 1.5 | 2.5 | 0.6 | 1.2 | 1.5 | 1.8 | 2.0 |
| Return Loss(dB)(P/S) | | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 |
| PDL(dB) | Typical | 0.1 | 0.1 | 0.15 | 0.15 | 0.15 | 0.2 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 |
| | Max | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.4 | 0.2 | 0.2 | 0.4 | 0.4 | 0.4 |
| Directivity(dB) | | Min | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
| Wavelength Dependent Loss(dB) | Typical | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.5 | 0.5 |
| | Max | 0.3 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.5 | 0.6 | 0.8 |
| Temperature Stability (-40~85℃)(dB) | Typical | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 |
| | Max | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 |
| Operating Temperature(℃) | | -40~85 | | | | | | | | | | |
| Storage Temperature(℃) | | -40~85 | | | | | | | | | | |
| Packaging Size(mm) | Bare Splitter | 40X4X4 | | | 50X7X4 | | 60X12X4 | | 50X4X4 | | 60X7X4 | |
| | Blockless Splitter | 60X7X4 | | 60X12X5 | 80X20X6 | | 60X7X4 | | 80X12X5 | | 100X20X6 | |

Notes:1. All measurements were done at room temperature, and specifications exclude connectors
 2. S:Standard, P:Premium



Specification

| Parameters | | 1X2 | 1X4 | 1X8 | 1X16 | 1X32 | 1X64 | 2X2 | 2X4 | 2X8 | 2X16 | 2X32 |
|--------------------------------------|----------|-----------|---------|-----------|-----------|------------|-----------|-----------|---------|-----------|-----------|------------|
| Operating Wavelength(nm) | | 1260~1650 | | | | | | | | | | |
| Insertion Loss(dB) | Typical | 4.0 | 7.3 | 10.5 | 13.8 | 16.8 | 20.5 | 4.0 | 7.6 | 11.2 | 14.2 | 17.2 |
| | Max(P/S) | 4.3/4.5 | 7.5/7.7 | 11.0/11.2 | 14.0/14.2 | 17.0/17.5 | 21.0/21.5 | 4.4/4.7 | 8.0/8.3 | 11.7/12.0 | 14.7/15.0 | 17.9/18.2 |
| Loss Uniformity(dB) | Typical | 0.4 | 0.5 | 0.6 | 0.7 | 0.9 | 1.3 | 0.5 | 1.0 | 1.0 | 1.2 | 1.5 |
| | Max | 0.6 | 0.8 | 1.0 | 1.4 | 1.7 | 2.7 | 0.8 | 1.4 | 1.7 | 2.0 | 2.2 |
| Return Loss(dB)(P/S) | UPC min | 50/45 | 50/45 | 50/45 | 50/45 | 50/45 | 50/45 | 50/45 | 50/45 | 50/45 | 50/45 | 50/45 |
| | APC min | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 |
| PDL(dB) | Typical | 0.1 | 0.1 | 0.15 | 0.15 | 0.15 | 0.2 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 |
| | Max | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.4 | 0.2 | 0.2 | 0.4 | 0.4 | 0.4 |
| Directivity(dB) | Min | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
| Wavelength Dependent Loss(dB) | Typical | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.5 | 0.5 |
| | Max | 0.3 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.5 | 0.6 | 0.8 |
| Temperature Stability (-40~85°C)(dB) | Typical | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | Max | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Operating Temperature(°C) | | -40~85 | | | | | | | | | | |
| Storage Temperature(°C) | | -40~85 | | | | | | | | | | |
| Cassette Type | | Type O | | | Type L | Type S | Type O | | | Type L | Type S | |
| Packaging Size(LxWxH)(mm) | | 100X80X10 | | | 120X80X18 | 140X114X18 | | 100X80X10 | | | 120X80X18 | 140X110X18 |

Notes:1. All measurements were done at room temperature, and specifications include connectors
 2. S: Standard, P: Premium