

ASPL Series

GPON Passive Optical Splitter

Feature Summary

- ◆ High channel count
- ◆ Superior uniformity
- ◆ Low polarization dependent loss (PDL)
- ◆ Rugged metallic enclosure
- ◆ Wall mount / Rack mount
- ◆ Protection and coiling for the input patch cord / fiber pigtail to enable proper termination
- ◆ Lockable with optional padlock

Cost Effective

Alphion's family of passive optical splitters offer a cost effective solution that allows service providers to distribute content from a single fiber to multiple subscribers through a point-to-multipoint architecture facilitated through the use of optical splitters. These splitters can be arranged in a single, centralized fashion or distributed in a cascaded configuration. Since the network is purely passive, it is essential that splitter loss is kept to a minimum. Alphion's splitter family is designed and manufactured to insure minimal splitter loss and maintain uniformity, thereby improving optical reach

Flexible Configuration

Alphion's ASPL series of passive optical splitters are available in a range of configurations for designing an optimized PON network. Available options include 1x2, 1x4, 1x8, 1x16, 1x32 and 1x64. For networks that employ fiber path protection, the ASPL series of splitters also include the following configurations - 2x2, 2x4, 2x8, 2x16, 2x32, and 2x64.

The ASPL series of splitters also include indoor rack mount splitter options that employ standard LGX cartridges to provide 1x2, 1x4, 2x2 and 2x4 configurations.



SPECIFICATIONS

Insertion loss maximum (dB)(CR)

| | |
|--------|------|
| 1 x 2 | 4.0 |
| 1 x 4 | 7.1 |
| 1 x 8 | 10.5 |
| 1 x 16 | 13.8 |
| 1 x 32 | 17.1 |
| 1 x 64 | 20.5 |
| 2 x 2 | 4.2 |
| 2 x 4 | 7.4 |
| 2 x 8 | 11.0 |
| 2 x 16 | 14.6 |
| 2 x 32 | 17.8 |
| 2 x 64 | 20.5 |

Uniformity maximum (dB)

| | |
|--------|-----|
| 1 x 2 | 0.3 |
| 1 x 4 | 0.5 |
| 1 x 8 | 0.8 |
| 1 x 16 | 1.0 |
| 1 x 32 | 1.3 |
| 1 x 64 | 2.0 |
| 2 x 2 | 1.1 |
| 2 x 4 | 1.2 |
| 2 x 8 | 1.6 |
| 2 x 16 | 2.4 |
| 2 x 32 | 3.0 |
| 2 x 64 | 3.6 |

Operating Wavelength

| | |
|--------------|-----------------------------|
| 1 x n, 2 x n | 1260-1360 nm / 1480-1580 nm |
|--------------|-----------------------------|

PDL (dB)

<0.2 (<0.3 for 2 x 64)

Return loss (dB)

>55

Directivity (dB)

>55

Fiber type

Single mode fiber (ITU-T G.652)

Operating and Storage Temperature

-40 to +85°C

Compliance

TEC GR No. GR/PON-01/02-APR.2008

TEC GR No. TEC/GR/TX/OPT-001/01/APR-12

Connector Specifications

| | |
|------------------|----------------------------------|
| Insertion loss | Mated pair - 0.3 dB max |
| Return loss | UPC - 50 dB min |
| | APC - 60 dB min |
| Ferrule material | Ceramic (Zirconia) |
| Adapter sleeve | Ceramic (Zirconia) |
| Compliance | TEC GR No. GR/OFJ-02/01.MAY.2004 |

*The Optical specifications are met without the connectors.