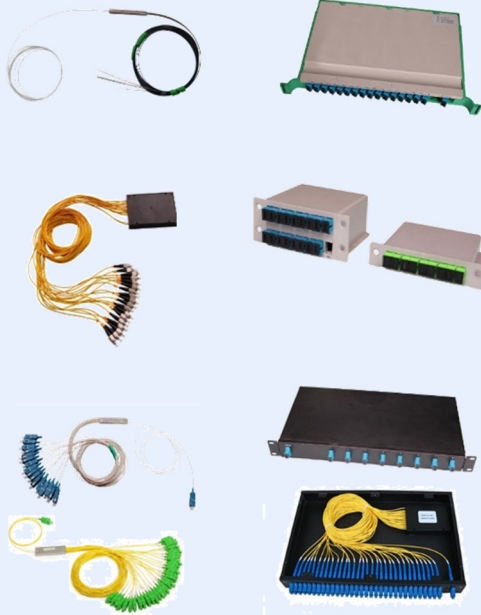


DATA SHEET

PLC OPTICAL SPLITTERS

PON Optical Splitters

Splice Tube, Flange, Flat Box, ODF and Rack Mount Types



Overview

Planar Lightwave Circuit (PLC) optical splitters provide best performance being fabricated using silica optical waveguide technology. They feature small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity.

Various configurations and platforms are available, such as 1xN and 2xN splitter products and they are widely used in Passive Optical Networks (PON) networks to realize optical signal power splitting.

Application

- FTTH, FTTC, FTTB;
- Passive Optical Networks(PON);
- CATV networks and data communications;
- Fibre optic equipment and systems.

Features

- High Uniformity;
- Compact & Small Size;
- High Reliability and Stability;
- Single Mode Fibre, Type G657A;
- Very low insertion loss and PDL;
- High Channel Uniformity;
- Wide Wavelength Operative Range;
- Manufactured and Tested to Telcordia-1209-CORE & GR-1221-CORE.



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 Issued. May 2017

Due to ongoing product
 development, technical
 specifications are subject to
 change without notice

Common Performance Specifications

| Item | Description | | | | | | | | | |
|--------------------------|----------------|-------|-------|-------|-------|------|-------|-------|-------|------|
| Wavelength (nm) | 1260-1650 | | | | | | | | | |
| Configuration | 1x4 | 1x8 | 1x16 | 1x32 | 1x64 | 2x4 | 2x8 | 2x16 | 2x32 | 2x64 |
| Insertion Loss (dB)* | ≤7.6 | ≤10.5 | ≤13.8 | ≤17.1 | ≤20.4 | ≤7.5 | ≤10.8 | ≤14.1 | ≤17.4 | ≤21 |
| Uniformity (dB) | ≤0.8 | ≤0.8 | ≤1.0 | ≤1.3 | ≤2.0 | ≤1.0 | ≤1.0 | ≤1.5 | ≤2.0 | ≤2.5 |
| Return Loss (dB) | UPC≥50, APC≥55 | | | | | | | | | |
| Directivity (dB) | ≥55 | | | | | | | | | |
| Temperature Range (°C) | -40 ~ +85 | | | | | | | | | |
| Storage Temperature (°C) | -40 ~ +86 | | | | | | | | | |

Note: * Insertion Loss Includes Connectors



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Individual Splitter Parameter Differences

| Item | Description | | | | | | | | | |
|-----------------------------------|-------------|-------|------------|-------|------------|------------|------------|------------|------------|---------|
| Configuration | 1x4 | 1x8 | 1x16 | 1x32 | 1x64 | 2x4 | 2x8 | 2x16 | 2x32 | 2x64 |
| Splice/ Bare Tube Splitter | | | | | | | | | | |
| PDL (dB) | ≤0.18 | ≤0.19 | ≤0.16 | ≤0.2 | ≤0.17 | ≤0.14 | ≤0.17 | ≤0.19 | ≤0.14 | ≤0.16 |
| Size(H×W×L) (mm) | 4x4x50 | | 4x7x50 | | x12x60 | 4x4x50 | | 4x7x50 | | 4x12x60 |
| Flange/ Cassette Splitter | | | | | | | | | | |
| PDL (dB) | ≤0.19 | ≤0.18 | ≤0.2 | NA | NA | ≤0.18 | ≤0.14 | ≤0.2 | NA | NA |
| Size(H×W×L) (mm) | 25x130x100 | | 50x130x100 | | NA | NA | 25x130x100 | | 50x130x100 | |
| Flat Box/ Module | | | | | | | | | | |
| PDL (dB) | ≤0.2 | ≤0.2 | ≤0.19 | ≤0.18 | ≤0.17 | ≤0.2 | ≤0.18 | ≤0.17 | ≤0.16 | ≤0.19 |
| Size(H×W×L) (mm) | 10x80x100 | | 18x80x120 | | 18x115x141 | | 10x80x100 | | 18x80x120 | |
| ODF Splice Tray Splitters | | | | | | | | | | |
| PDL(dB) | ≤0.2 | ≤0.18 | ≤0.19 | ≤0.2 | NA | ≤0.2 | ≤0.19 | ≤0.18 | ≤0.16 | NA |
| Size(H×W×L)(mm) | 25x200x300 | | 50x200x300 | | NA | 25x200x300 | | 50x200x300 | | NA |
| Rack Mount Splitters | | | | | | | | | | |
| PDL(dB) | ≤0.2 | ≤0.19 | ≤0.18 | ≤0.15 | NA | ≤0.2 | ≤0.2 | ≤0.19 | ≤0.18 | NA |
| Size(H×W×L)(mm) | 45x205x483 | | | | NA | 45x205x483 | | | | NA |



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Ordering Information

C-COR Part Number: ABC.x.①.②.③.④

| Code | Value | Description |
|-----------------------|--------------------------|--------------------------|
| P/N Prefix (x) | ABC.v | Splice Tube |
| | ABC.w | Flange/ Cassette |
| | ABC.x | Flat Box/ Module |
| | ABC.y | ODF Splice Tray |
| | ABC.z | Rack Mount |
| | ① Splitter Configuration | 1 |
| 2 | | 1x8 |
| 3 | | 1x16 |
| 4 | | 1x32 |
| 5 | | 1x64 |
| 6 | | 2x4 |
| 7 | | 2x8 |
| 8 | | 2x16 |
| 9 | | 2x32 |
| A | | 2x64 |
| ② Jacket Type | 1 | 900µm, Tight Buffered |
| | 2 | 2mm, Tight Buffered |
| ③ Fibre Configuration | 1 | Single Mode Pigtailed |
| | 2 | Single Mode Ribbon Fibre |
| ④ Optical Connector | 1 | SC/APC |
| | 2 | SC/UPC |
| | 3 | LC/APC |
| | 4 | LC/UPC |
| | 0 | No Connectors |



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| C-COR P/N Examples | Description |
|--------------------|---|
| TBA | Splice Tube Splitter, 1x4, 2mm Jacketed Fibre, without Connectors |
| TBA | Flange Cassette Splitter, 1x32, 900µm Fibre, SC/APC |

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Contact your local sales representative for product availability in your area and for other interface and option requirements.