

# Rack-Mount PLC Optical Splitters

## Description

Montclair offers a wide selection of high-quality Rack-mount PLC optical splitters for a variety of broadband network applications at a low per port cost. These passive optical components provide superior and reliable performance over a wide operating wavelength range (1260 ~ 1650nm) and temperature range (-40 to +85 °C) to address high-bandwidth and environmental network demands. PLC splitters are available up to 128 ports in standard and custom design housing options and configurations.



2x32 Rack-Mount 1RU SC/APC Splitter  
for 19 or 23" Rack (pictured)

## Features

- )] Low insertion loss & PDL
- )] High return loss
- )] Superior port-to-port uniformity
- )] Wide operating wavelength 1260 ~ 1650nm
- )] Wide operating temperature -40 to +85 °C
- )] Excellent environmental & mechanical stability
- )] Premium grade components & connectivity
- )] Telcordia GR-1221/GR-1209 & GR-326 qualified
- )] RoHS compliant

## Network Environment

- )] FTTH networks
- )] Passive Optical Networks (PONs)
- )] Telecom networks
- )] CATV / RFoG
- )] Local & Wide Area Networks



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## Specifications

| 1xN Parameters          |      | Value                             |      |      |      |      |      |       |
|-------------------------|------|-----------------------------------|------|------|------|------|------|-------|
| Configuration           |      | 1x8                               | 1x12 | 1x16 | 1x24 | 1x32 | 1x64 | 1x128 |
| Operating wavelength nm |      | 1260 ~ 1650                       |      |      |      |      |      |       |
| Insertion loss dB       | typ. | 10.3                              | 12.2 | 13.6 | 15.8 | 16.6 | 20.1 | 24.5  |
|                         | max. | 10.7                              | 12.5 | 13.9 | 16.0 | 17.2 | 21.5 | 25.5  |
| Uniformity dB           | max. | 0.8                               | 1.2  | 1.4  | 1.5  | 1.5  | 2.0  | 2.6   |
| PDL dB                  | max. | 0.3                               | 0.3  | 0.3  | 0.3  | 0.3  | 0.5  | 0.8   |
| TDL dB                  | max. | 0.5                               |      |      |      |      |      |       |
| Return loss dB          |      | 55 / 50                           |      |      |      |      |      |       |
| Directivity dB          |      | 55                                |      |      |      |      |      |       |
| Operating /             |      |                                   |      |      |      |      |      |       |
| Storage Temp. °C        |      | -40 to +85                        |      |      |      |      |      |       |
| Fiber type              |      | Singlemode Bend insensitive G657A |      |      |      |      |      |       |

Note: Above values do not include connectors

| 2xN Parameters          |      | Value                             |      |      |      |       |
|-------------------------|------|-----------------------------------|------|------|------|-------|
| Configuration           |      | 2x8                               | 2x16 | 2x32 | 2x64 | 2x128 |
| Operating wavelength nm |      | 1260 ~ 1650                       |      |      |      |       |
| Insertion loss dB       | typ. | 10.6                              | 13.8 | 17.0 | 20.5 | 24.8  |
|                         | max. | 11.0                              | 14.8 | 17.9 | 21.5 | 25.8  |
| Uniformity dB           | max. | 1.2                               | 1.5  | 1.8  | 2.5  | 3.0   |
| PDL dB                  | max. | 0.3                               | 0.3  | 0.3  | 0.5  | 1.0   |
| TDL dB                  | max. | 0.5                               |      |      |      |       |
| Return loss dB          |      | 55 / 50                           |      |      |      |       |
| Directivity dB          |      | 55                                |      |      |      |       |
| Operating /             |      |                                   |      |      |      |       |
| Storage Temp. °C        |      | -40 to +85                        |      |      |      |       |
| Fiber type              |      | Singlemode Bend insensitive G657A |      |      |      |       |

Note: Above values do not include connectors

| Rack-mount dimensions (1xN, 2xN) | Value          |
|----------------------------------|----------------|
| 1RU (W x D x H)                  | 482 x 230 x 44 |
| 2RU (W x D x H)                  | 482 x 230 x 88 |

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Ordering information

M - T D - P - 1 - 6 0 - R - 2 / 3

| 1. Port configuration: | 2. Adapter [connector] type input: |        | 3. Adapter [connector] type output: |        |
|------------------------|------------------------------------|--------|-------------------------------------|--------|
| 01x08                  | ALC                                | LC/APC | ALC                                 | LC/APC |
| 01x12                  | LCU                                | LC/UPC | LCU                                 | LC/UPC |
| 01x16                  | ASC                                | SC/APC | ASC                                 | SC/APC |
| 01x24                  | SCU                                | SC/UPC | SCU                                 | SC/UPC |
| 01x32                  |                                    |        |                                     |        |
| 01x64                  |                                    |        |                                     |        |
| 01x128                 |                                    |        |                                     |        |
| 02x08                  |                                    |        |                                     |        |
| 02x16                  |                                    |        |                                     |        |
| 02x32                  |                                    |        |                                     |        |
| 02x64                  |                                    |        |                                     |        |
| 02x128                 |                                    |        |                                     |        |

**Note:** Rack-mount splitters are available in many custom port and adapter/connector configuration

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