



## Prostal Limited.

1F., No.40, Aly. 22, Ln. 143, Ruiping Rd., Yangmei Disty, Taoyuan City 32658, Taiwan

TEL: +886-3-4828372 Fax: +886-3-4828377

URL: [www.prostal.com.tw](http://www.prostal.com.tw) E-MAIL: [joan@prostal.com.tw](mailto:joan@prostal.com.tw)

Vat number: 24849130

# PLC Splitter

## Brief Introduction:

Planar Lightwave Circuit Splitter (PLC Splitter) is a technology based on planar waveguide optical power distribution products, with low insertion loss and polarization dependent loss, small size, wide operating wavelength range, high channel uniformity and good characteristics. Especially for passive optical network (EPON,BPON,GPON,etc.) to connect the central office and terminal equipment and optical signal splitter to achieve.

All products comply with Telcordia GR-1209-CORE, Telcordia GR-1221-CORE, and ROHS standards. We can offer full range of 1xN and 2x N products, and customized for all occasions in the optical splitter.

## Features

- Ultra-end insertion loss and associated loss of polarization
- good spectral uniformity
- wide wavelength bandwidth
- wide range of working environment
- High reliability with compact size

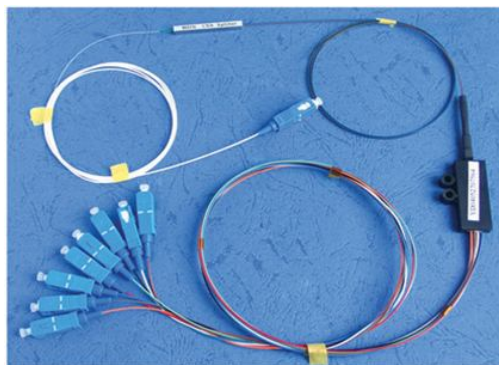


## Applications

- FTTX
- Passive Optical Network (OPN)
- Cable TV Network (CATV)

## Standard Compliance

- Telcordia GR-1209-CORE
- Telcordia GR-1209-CORE
- YD/T1117-2001
- RoHS





# Prostal Limited.

1F., No.40, Aly. 22, Ln. 143, Ruiping Rd., Yangmei Disty, Taoyuan City 32658, Taiwan

TEL: +886-3-4828372 Fax: +886-3-4828377

URL: [www.prostal.com.tw](http://www.prostal.com.tw) E-MAIL: [joan@prostal.com.tw](mailto:joan@prostal.com.tw)

Vat number: 24849130

## Parameters

### 1xN PLC splitter

(Measured at room temperature, [excluded losses by connectors](#))

| 1xN PLC splitter                 |         | 1x2              | 1x4       | 1x8       | 1x16      | 1x32       | 1x64       |
|----------------------------------|---------|------------------|-----------|-----------|-----------|------------|------------|
| Fiber Type                       |         | 9-125 um SMF-28e |           |           |           |            |            |
| Wavelength (nm)                  |         | 1260-1650        |           |           |           |            |            |
| Insertion Loss (dB)              | P grade | 3.8              | 7.2       | 10.3      | 13.5      | 16.5       | 20.5       |
|                                  | S grade | 4.0              | 7.4       | 10.7      | 13.7      | 16.9       | 21.0       |
| Uniformity Loss (dB)             | Max     | 0.6              | 0.6       | 0.8       | 1.2       | 1.5        | 2.5        |
| Polarization Dependent Loss (dB) | Max     | 0.2              | 0.2       | 0.3       | 0.3       | 0.3        | 0.4        |
| Device Dimension (mm)            |         | 40*4*4           | 40*4*4    | 40*4*4    | 40*4*4    | 50*7*4     | 60*12*4    |
| Module Dimension (mm)            |         | 100*80*10        | 100*80*10 | 100*80*10 | 120*80*18 | 140*115*18 | 140*115*18 |
| Mini-Module Dimension (mm)       |         | 60*7*4           | 60*7*4    | 60*7*4    | 60*12*4   | 80*20*6    | 100*40*6   |
| Directivity (dB)                 | Min     | 55               |           |           |           |            |            |
| Return Loss (dB)                 | Min     | UPC 50; APC 55   |           |           |           |            |            |
| Operating Temperature (°C)       |         | -40~85           |           |           |           |            |            |
| Storage Temperature (°C)         |         | -40~85           |           |           |           |            |            |

### 2xN PLC splitter

(Measured at room temperature, [excluded losses by connectors](#))

| 2xN PLC splitter                 |         | 2x2              | 2x4       | 2x8       | 2x16      | 2x32       | 2x64       |
|----------------------------------|---------|------------------|-----------|-----------|-----------|------------|------------|
| Fiber Type                       |         | 9-125 um SMF-28e |           |           |           |            |            |
| Wavelength (nm)                  |         | 1260-1650        |           |           |           |            |            |
| Insertion Loss (dB)              | P grade | 3.9              | 7.3       | 10.5      | 14.4      | 17.4       | 21.0       |
|                                  | S grade | 4.2              | 7.6       | 11.0      | 14.6      | 17.9       | 21.5       |
| Uniformity Loss (dB)             | Max     | 0.8              | 0.8       | 1.5       | 2.0       | 2.5        | 2.5        |
| Polarization Dependent Loss (dB) | Max     | 0.2              | 0.2       | 0.3       | 0.4       | 0.4        | 0.4        |
| Device Dimension (mm)            |         | 60*7*4           | 60*7*4    | 60*7*4    | 70*7*4    | 70*7*4     |            |
| Module Dimension (mm)            |         | 100*80*10        | 100*80*10 | 100*80*10 | 120*80*18 | 140*115*18 | 140*115*18 |
| Mini-Module Dimension (mm)       |         | 60*7*4           | 60*7*4    | 60*7*4    | 80*12*4   | 100*20*6   | NA         |
| Directivity (dB)                 | Min     | 55               |           |           |           |            |            |
| Return Loss (dB)                 | Min     | UPC 50; APC 55   |           |           |           |            |            |
| Operating Temperature (°C)       |         | -40~85           |           |           |           |            |            |
| Storage Temperature (°C)         |         | -40~85           |           |           |           |            |            |



# Prostal Limited.

1F., No.40, Aly. 22, Ln. 143, Ruiping Rd., Yangmei Disty, Taoyuan City 32658, Taiwan

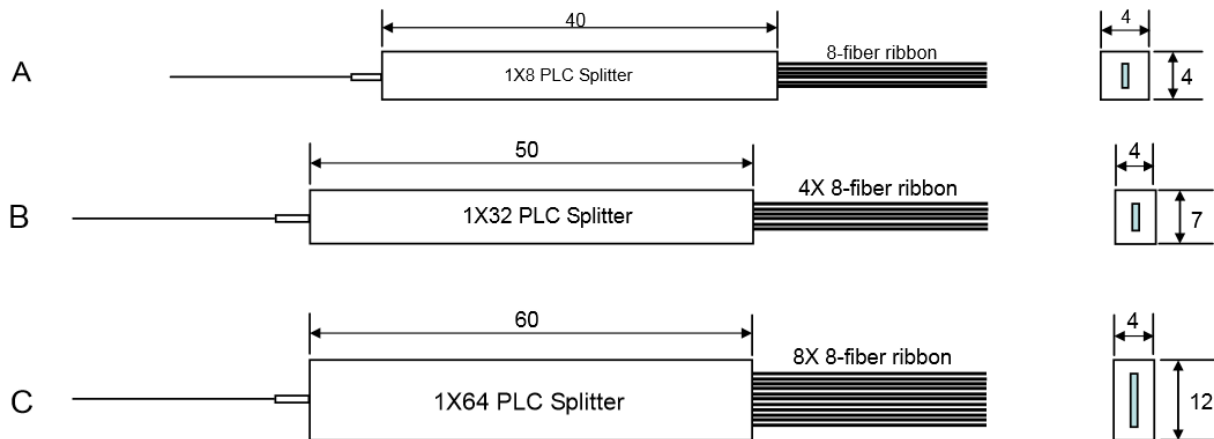
TEL: +886-3-4828372 Fax: +886-3-4828377

URL: [www.prostal.com.tw](http://www.prostal.com.tw) E-MAIL: [joan@prostal.com.tw](mailto:joan@prostal.com.tw)

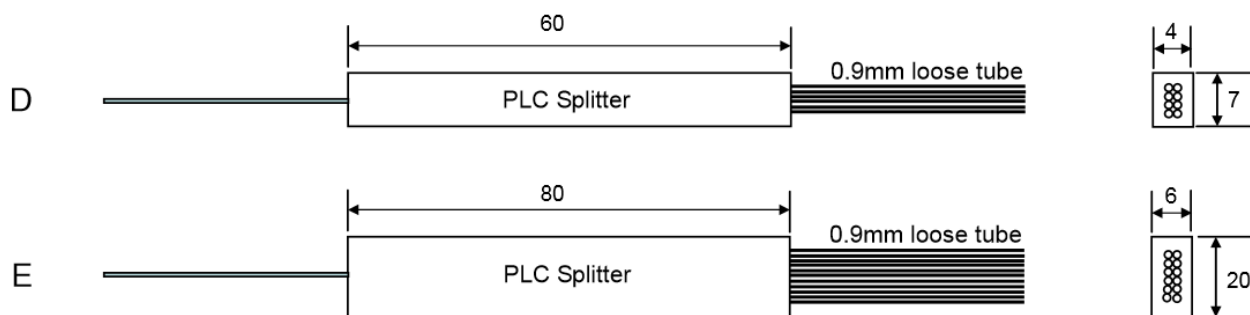
Vat number: 24849130

## Mechanical Dimensions

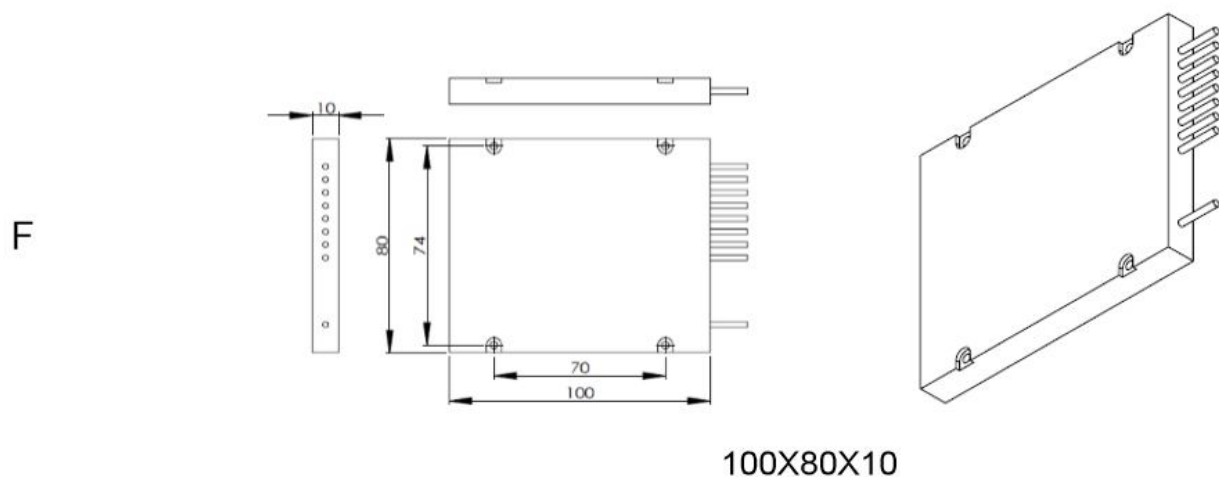
### PLC Splitter packed in stainless steel tube



### PLC Splitter Mini-Module



### PLC Splitter Module





# Prostal Limited.

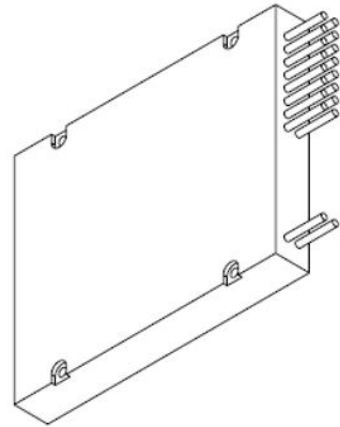
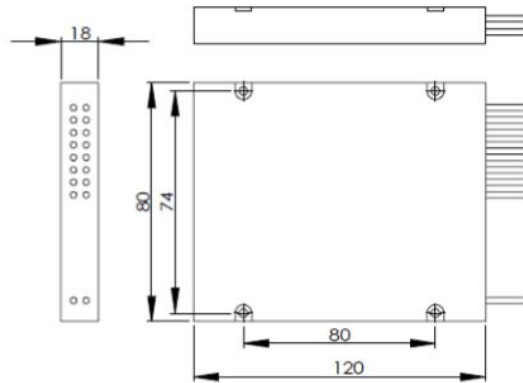
1F., No.40, Aly. 22, Ln. 143, Ruiping Rd., Yangmei Disty, Taoyuan City 32658, Taiwan

TEL: +886-3-4828372 Fax: +886-3-4828377

URL: [www.prostal.com.tw](http://www.prostal.com.tw) E-MAIL: [joan@prostal.com.tw](mailto:joan@prostal.com.tw)

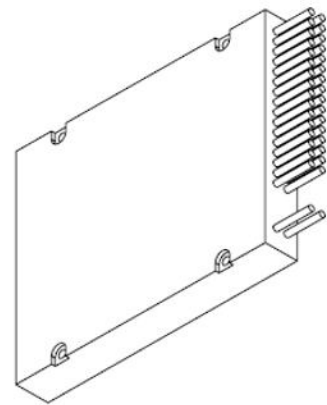
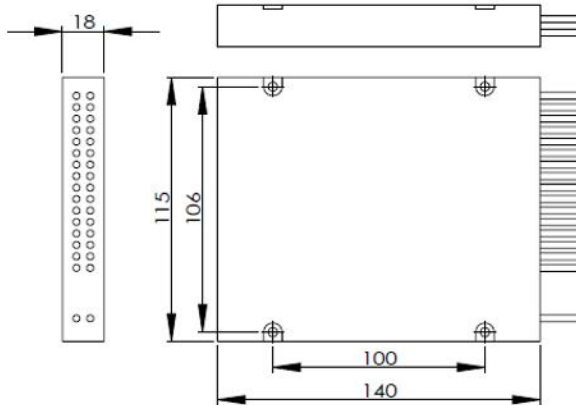
Vat number: 24849130

G



120X80X18

H



140X115X18

## Ordering Information

| PLC | XXXX       | X                   | X               | X                    | X            | X                | X             |
|-----|------------|---------------------|-----------------|----------------------|--------------|------------------|---------------|
|     | Port       | Input Pigtail Style | Input Connector | Output Pigtail Style | Fiber Length | Output Connector | Package type  |
| PLC | 0102=1x2   | 0=bare fiber        | 0=none          | 0=bare fiber         | 0=0.5m       | 0=none           | A=Bare        |
|     | 0104=1x4   | 1=900um             | 1=SC/PC         | 1=900um              | 1=1m         | 1=SC/PC          | B=Blockless   |
|     | 0108=1x8   | Loose tube          | 2=SC/APC        | Loose tube           | 2=1.5m       | 2=SC/APC         | C=ABS box     |
|     | 0116=1x16  | 2=900um             | 3=FC/PC         | 2=900um              | 3=2m         | 3=FC/PC          | D=Insert type |
|     | 0132=1x32  | Jacket              | 4=FC/APC        | Jacket               | 4=3m         | 4=FC/APC         | E=Pallet type |
|     | 0164=1x64  | 3=2.0mm cable       | 5=ST            | 3=2.0mm              | 5=4m         | 5=ST             | F=19" 1U Rack |
|     | 1128=1x128 | 4=3.0mm cable       | 6=LC            | cable                | S=special    | 6=LC             | G=Special     |
|     | 0204=2x4   |                     | 7=LC/APC        | 4=3.0mm              |              | 7=LC/APC         |               |
|     | 0208=2x8   |                     | 8=E2000         | cable                |              | 8=E2000          |               |
|     | 0216=2x16  |                     | S=Special       |                      |              | S=Special        |               |
|     | 0232=2x32  |                     |                 |                      |              |                  |               |
|     | 0264=2x64  |                     |                 |                      |              |                  |               |