

Installation
Note

Keysight Y1270A
Front Panel
Interfacing Kit
For M9018A PXIe Chassis

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Introduction

The Keysight Y1270A front panel Interfacing kit for the M9018A PXIe chassis has been designed to protect the M9018A PXIe modules and their associated cabling.

Input and output signals from modules installed in the M9018A chassis are routed to a connector strip on the Y1270A frame. Each connector may be labeled to identify its associated module connector.

This installation note explains how to assemble connectors on the interfacing kit connector strip. The interfacing kit can be used in two installation configurations: desktop and rack-mount. This installation note applies to both desktop and rack-mount installations.

Desktop

This configuration is suitable for desktop operation where the M9018A chassis is occasionally moved. The M9018A chassis with modules installed is heavy, and the handles make moving it more convenient.

Rack-Mount

This configuration is suitable for fixed installation where the M9018A chassis is rack-mounted and connected to other instruments within the rack. Refer to the Y1270A-301 Installation Note for details on rack-mounting the M9018A chassis with the Y1270A attached to it.

Key Components

The following image shows the key components:

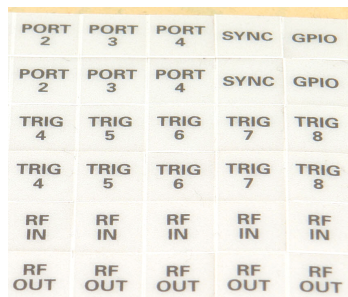




- The frame
- BNC connectors with integrated cable, (maximum of eight)
- Type-N connectors, (maximum of four)
- SMA to SMA cables for the Type-N connectors, (maximum of four)
- Plugs to fill unused connector location holes
- Labels to identify each connector



Y1270A Parts List

There are two options available:

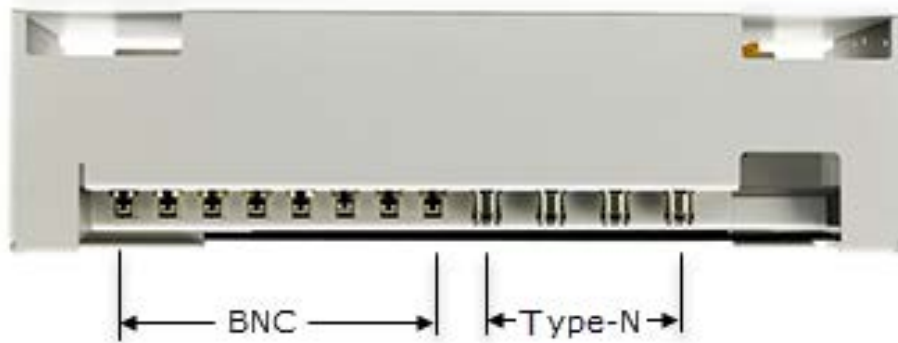
- Y1270A-101 - Frame and door assembly with 2 Type-N and 4 BNC Connectors
- Y1270A-102 - Frame and door assembly with 4 Type-N and 8 BNC Connectors

Item #	Opt 101 Qty	Opt 102 Qty	Part Number	Description	
1	1	1	M9393-60007	Frame/Door Assembly	
2	1	1	M9393-80002	Set of ID Labels	
3	2	4	E4418-20009	Adapter RF N - SMA	
4	2	4	2190-0104	Washer-Lock Internal 7/16 inch	
5	2	4	2950-0132	Nut Hex Dbl Cham	
6	2	4	E6630-60004	Cable Coaxial SMA-to SMA 12 Inch	

Item #	Opt 101 Qty	Opt 102 Qty	Part Number	Description	
7	4	8	8121-2461	Cable Assy Coax Straight BNC-F to Straight SMB- F	
8	4	8	2190-0102	Washer Lock	
9	4	8	0590-1251	Nut 15/32 32 THD	
10	4	4	6960-0178	Plug-hole for item 3	
11	8	8	6960-0149	Plug-hole for item 7	
12	8	8	0515-1269	Screw Machine	

Interfacing Kit Connectors

A maximum of four Type-N and eight BNC connectors can be installed in the Y1270A .



Referring to the image above, the Type-N connectors and the BNC connectors can only be installed in designated holes:

- The four Type-N connectors can only be installed in the four holes to the right when facing the front of the cover.
- The eight BNC connectors can only be installed in the eight holes to the left when facing the front of the cover.

Installing Connectors

Type-N Connectors

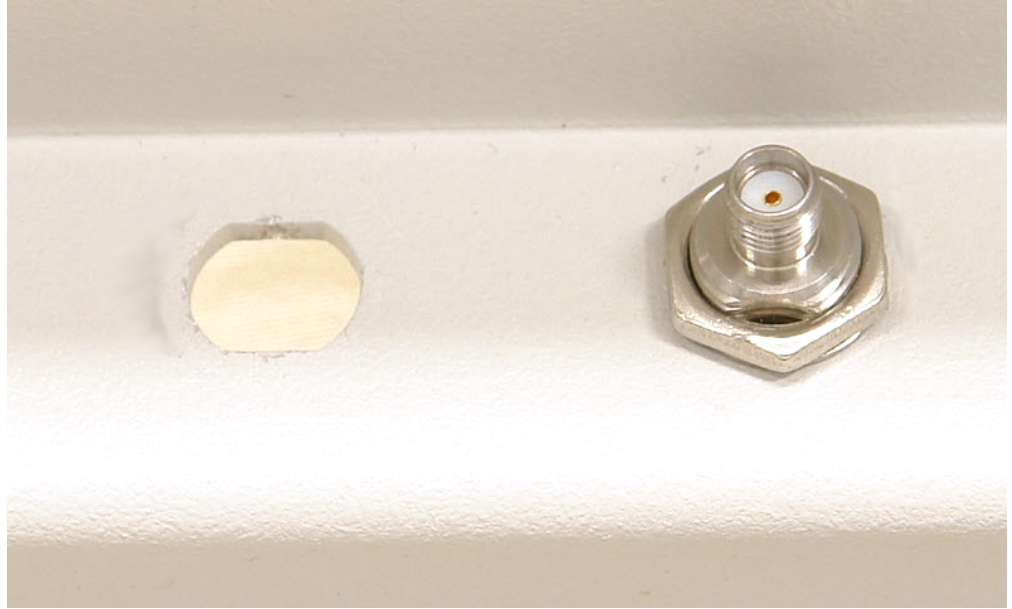
1. The Type-N connector comes with a lock-washer and a nut. Remove the lock-washer and nut to install the Type-N connector.



2. Insert a Type-N connector through a Type-N connector mounting hole so that its threaded portion appears at the rear of the cover, (E4418-20009, parts list item 3).
Notice the two straight edges at the top and bottom of the Type-N connector mounting hole. These straight edges prevent the connector from rotating while it is being mounted.



3. Slip the lock-washer and nut over the back of the Type-N connector behind the cover, (2190-0104 item 4 and 2950-0132 item 5 on the parts list).
From the rear of the cover, using a 9/16 inch wrench, tighten the nut on the lock-washer and Type-N connector to 35 inch-pounds.



4. Connect a cable (E6630-60004, parts list item 6) to the back side of the Type-N connector and tighten it with a 5/16 wrench to 10 inch-pounds.



BNC Connectors

1. The BNC cable assembly comes with a lock-washer and nut. Remove the lock-washer and nut before installing the BNC connector.



2. Insert the cable end of a BNC connector assembly through a BNC mounting hole so that the BNC connector mounts from the front of the cover (8121-2461, parts list item 7).



3. Slip the lock-washer and nut over the threaded portion of the BNC connector protruding through the front of the cover (2190-0102 item 8 and 0590-1251

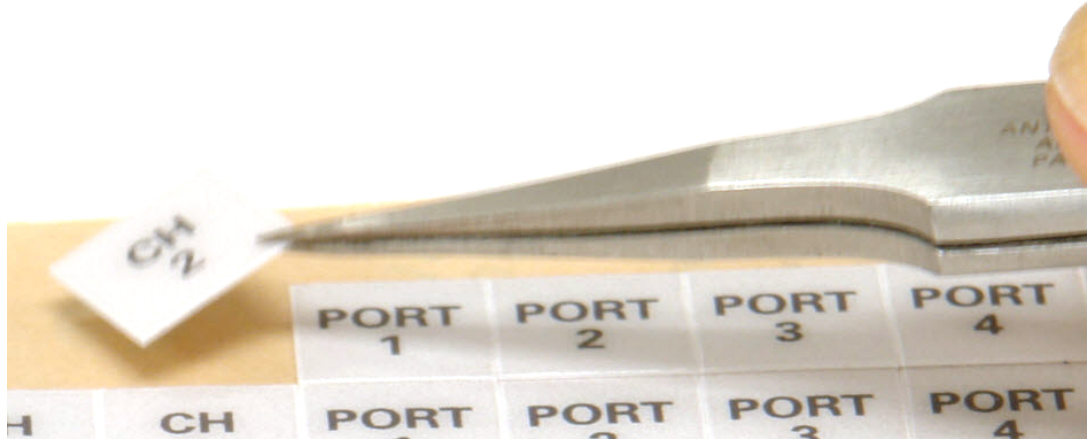
item 9 on the parts list).



4. Tighten the nut to the lock-washer on the BNC connector using a 9/16 wrench to 35 inch-pounds.

Associate Labels to Each Connector

1. Design the layout of the connectors on the Y1270A connector panel, ensuring connector cables will reach their respective PXI modules.
2. Using tweezers, remove the appropriate label, and affix it below its designated connector on the frame.



Attach the Y1270A Frame to the M9018A Chassis

Although the Y1270A frame has eight holes on each side of the frame, only four of the eight holes are used for attaching the frame.

1. In the following image the holes closest to the front of the M9018A are used to secure the Y1270A frame to the M9018A chassis.



2. Slide the Y1270A frame onto the M9018A chassis using great care not to pinch the cables running between the Y1270A frame, and the M9018A chassis.



3. Attach the Y1270A frame to the M9018A chassis using 4 screws on each side of the Y1270A frame, (0515-1269, parts list item 12)



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