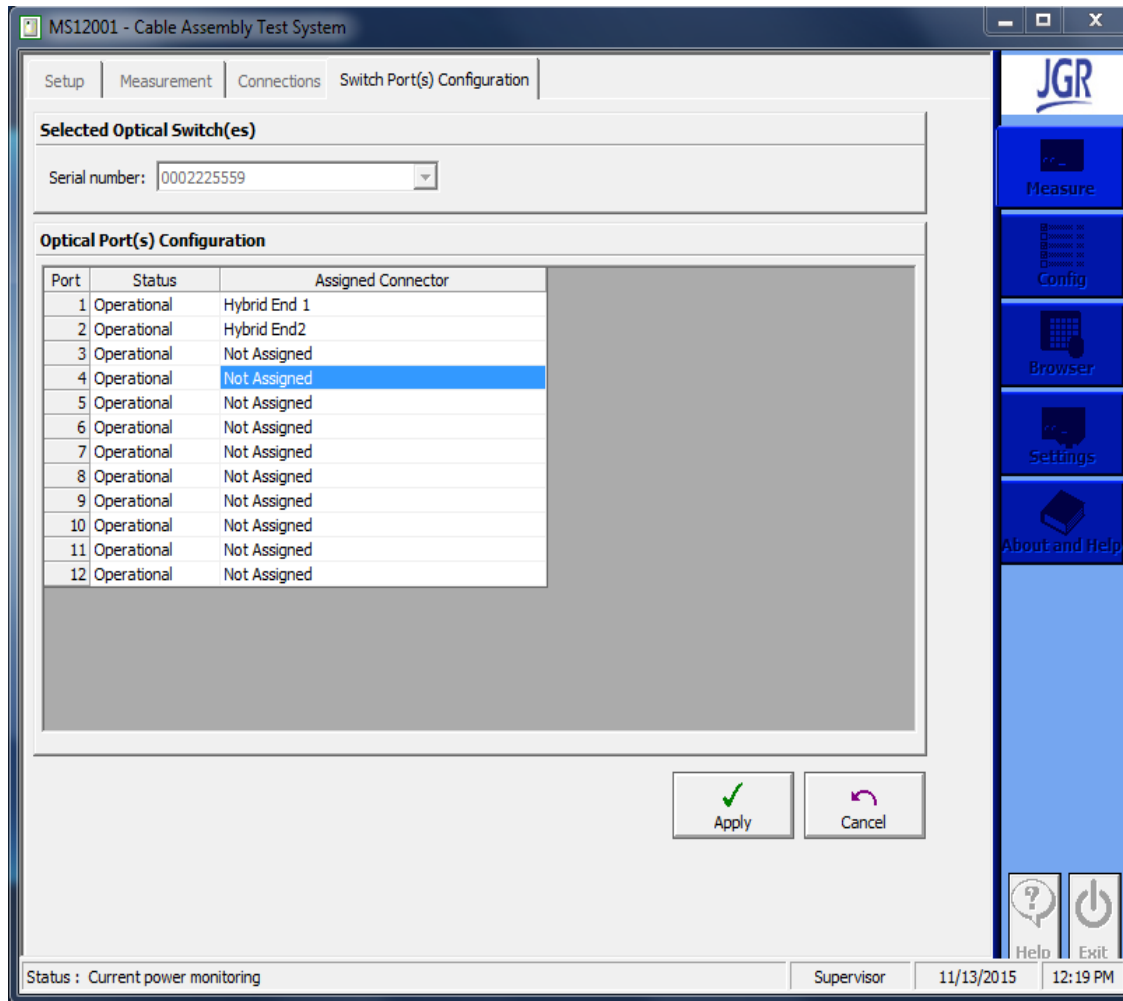


# Simplex Hybrid Bidirectional Testing Using a Switch

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# Simplex Hybrid Bidirectional Testing Using a Switch



- In 'Measurement' under the Switch Configuration tab setup Port 1 as your first connector type and port 2 as the second connector type.
- Next click 'Apply'.

# Simplex Hybrid Bidirectional Testing Using a Switch

**DUT**  
This configuration window is used to identify devices under test (DUT). From this window, you can add, delete or modify a specific DUT.

Company | Customer | Connector | **DUT** | Test

**DUT Identification**

Part number: Hybrid Bidirectional Test Jumper  
Description: Simplex Hybrid  
Manufacturer: My Company  
Maximum fiber length (m): 3  
Fiber type: Singlemode - 9um  
Assembly type: Fanout-to-Multifiber  
Number of fibers: 1  
 Mandrel Free

**DUT Configuration**

End A: Hybrid End 1 | End B: Hybrid End2  
IL limits: 0.5 dB | IL limits: 0.5 dB  
Ref. limits: -65 dB | Ref. limits: -65 dB

+ Add    X Delete    ↻ Copy To    ✓ Apply    ↶ Cancel

Status : Ready    Supervisor    11/13/2015    12:24 PM

- In the Config tab create/edit a DUT
- Select 'Fanout-to-Multifiber' with 1 fiber
- Configure your DUT to use your Hybrid connectors
- Click "apply" to save the new DUT

# Simplex Hybrid Bidirectional Testing Using a Switch

Set up a bidirectional measurement with your new DUT.

The screenshot displays the MS12001 - Cable Assembly Test System software interface. The window title is "MS12001 - Cable Assembly Test System". The interface is divided into several sections:

- Test Identification:** Includes a "Test Name" field and a "Refresh" button.
- Test Configuration:**
  - General:** "Customer" is set to "My Fifth Customer". "DUT" is set to "Hybrid Bidirectional Test Jumper" (circled in orange). "Operator" is empty.
  - Labels:** "First" and "Second" are both set to "None".
  - Hardware Type:** "Standard" is selected (indicated by a green bar), and "High Throughput" is unselected. There are buttons for "Use Secondary Switch" and "Configure Secondary Switch".
  - Singlemode Wavelength:** Checkboxes for 1310, 1490, 1550 (checked), and 1625.
  - Multimode Wavelength:** Checkboxes for 850 and 1300.
  - Test Type:** "Unidirectional" and "Bidirectional" (circled in orange) are selected. "Connector A" and "Connector B" are unselected.
  - Measurement:** "Insertion Loss" and "Reflectance" are selected.
  - Custom Fields:** Three empty input fields labeled "Custom 1:", "Custom 2:", and "Custom 3:".

A red arrow points from the "DUT" dropdown menu to the "Bidirectional" test type option. The status bar at the bottom shows "Status : Ready", "Supervisor", "11/13/2015", and "01:19 PM". On the right side, there is a vertical toolbar with buttons for "Measure", "Config", "Browser", "Settings", and "About and Help". At the bottom right, there are "Start", "Help", and "Exit" buttons.

# Simplex Hybrid Bidirectional Testing Using a Switch

- Connect the MS12 to your switch common.
- Connect your MTJ1 (Hybrid End1) to Switch channel 1 and MTJ2 (Hybrid End2) to Switch channel 2 (see next slide for picture).

The screenshot displays the MS12001 - Cable Assembly Test System software interface. The main window is titled "MS12001 - Cable Assembly Test System" and has tabs for "Setup", "Measurement", "Connections", and "Switch Port(s) Configuration".

The "Measurement" tab is active, showing a table with the following data:

P#	1310nm	1550nm	First Reference	Len. (m)
1	0.330	0.112		6.2

Below the table, the "Device Status" section shows power readings for 1310nm and 1550nm. The 1310nm reading is -25.746 dB. The "MTJ1 Reference End A" section shows a schematic diagram of the test setup, with a red circle highlighting the connection between the MS12 and the MTJ1.

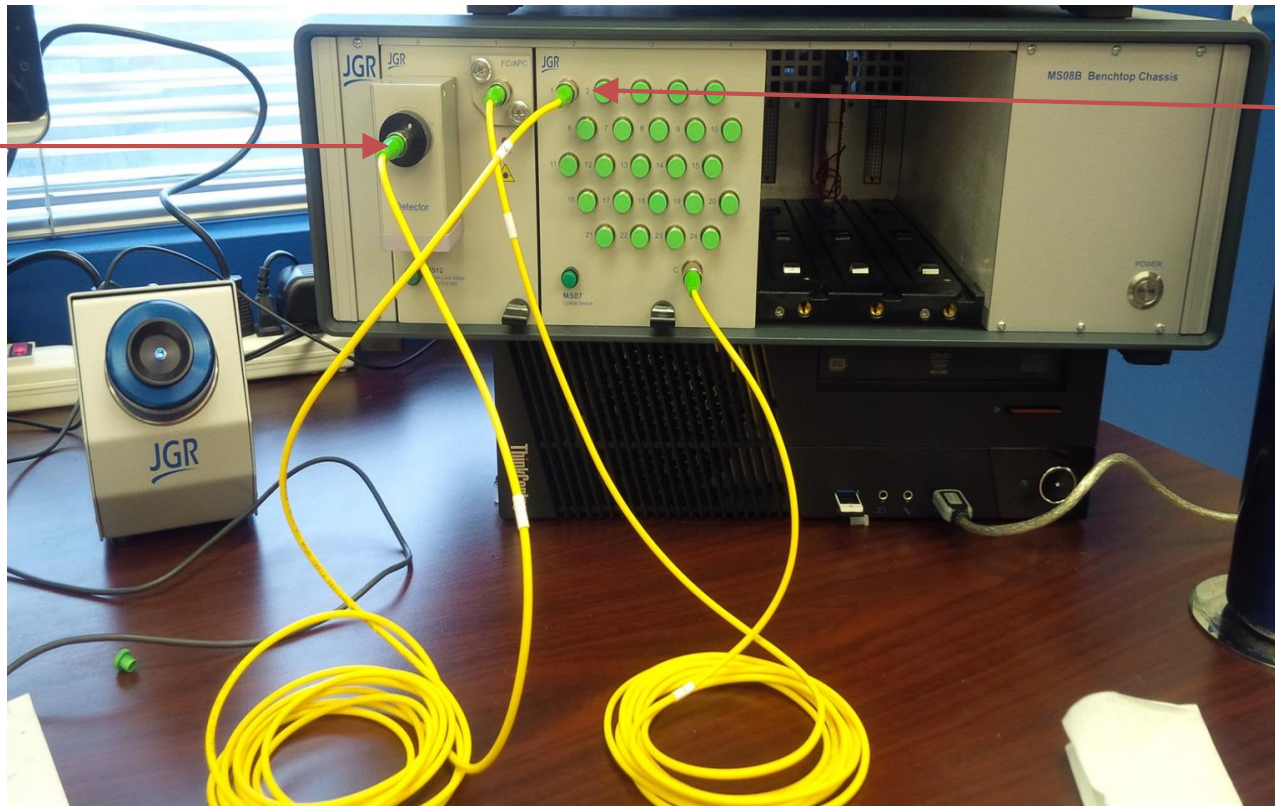
The "Monitoring" section includes a "Fiber" dropdown set to 1, a "Wavelength" dropdown set to 1310/1550, and buttons for "Stop Monitoring" and "Start Monitoring". The "Hybrid Direction" section has checkboxes for "First Direction" and "Second Direction". The "Print Label/Next DUT" section has buttons for "Print Label" and "Next DUT". The "Acquisition" section has checkboxes for "Reference" and "Measurement", and buttons for "Stop" and "Start".

The "Serial Number" section has a text box containing "test" and a dropdown set to 1. The "Status" bar at the bottom shows "Current power monitoring", "Supervisor", "11/13/2015", and "01:25 PM".

# Simplex Hybrid Bidirectional Testing Using a Switch

- Connect your MTJ1 as shown.
- Also connect your MTJ2 to channel 2 of the switch, and leave the Hybrid End2 disconnected temporarily.

Hybrid End1  
connector



MTJ1