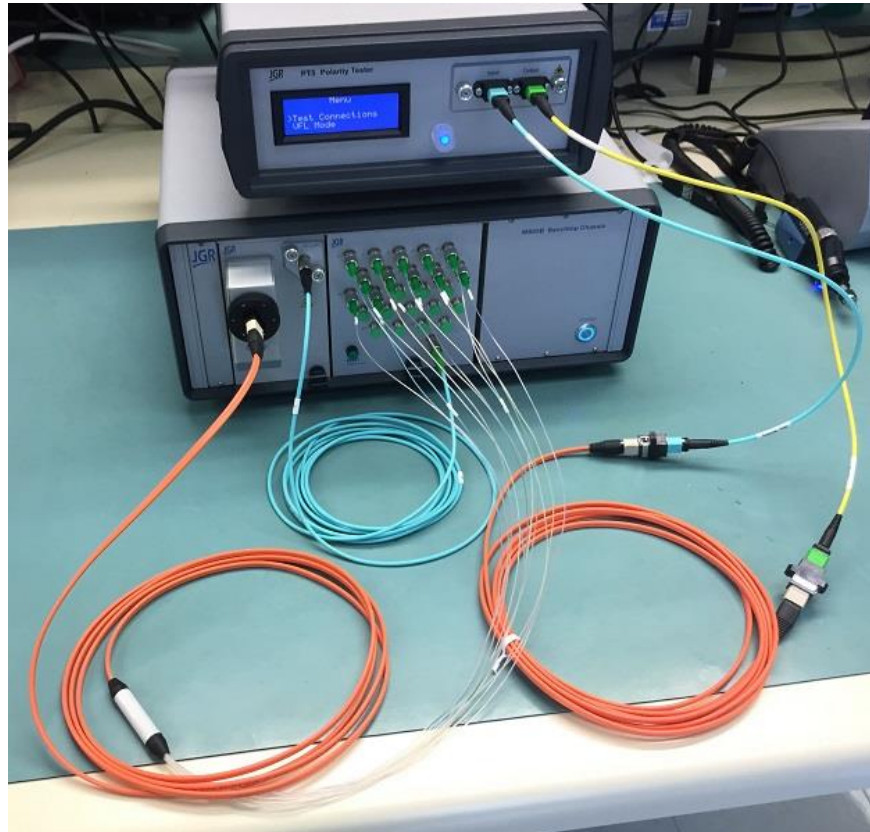


Integrating Polarity Testing in MS12001

Integrating Polarity Testing in MS12001

This tutorial will explain how to integrate JGR Optics' PT5 polarity tester in the MS12001 cable assembly test system



Integrating Polarity Testing in MS12001

1. Create the necessary DUT config

The screenshot displays the 'DUT' configuration window in the MS12001 - Cable Assembly Test System. The window title is 'MS12001 - Cable Assembly Test System'. The main heading is 'DUT', with a sub-heading: 'This configuration window is used to identify devices under test (DUT). From this window, you can add, delete or modify a specific DUT.'

The interface includes a navigation bar with tabs: Company, Customer, Connector, DUT (selected), Test, and Polarity. A vertical sidebar on the right contains icons for Measure, Config, Browser, Settings, and About and Help.

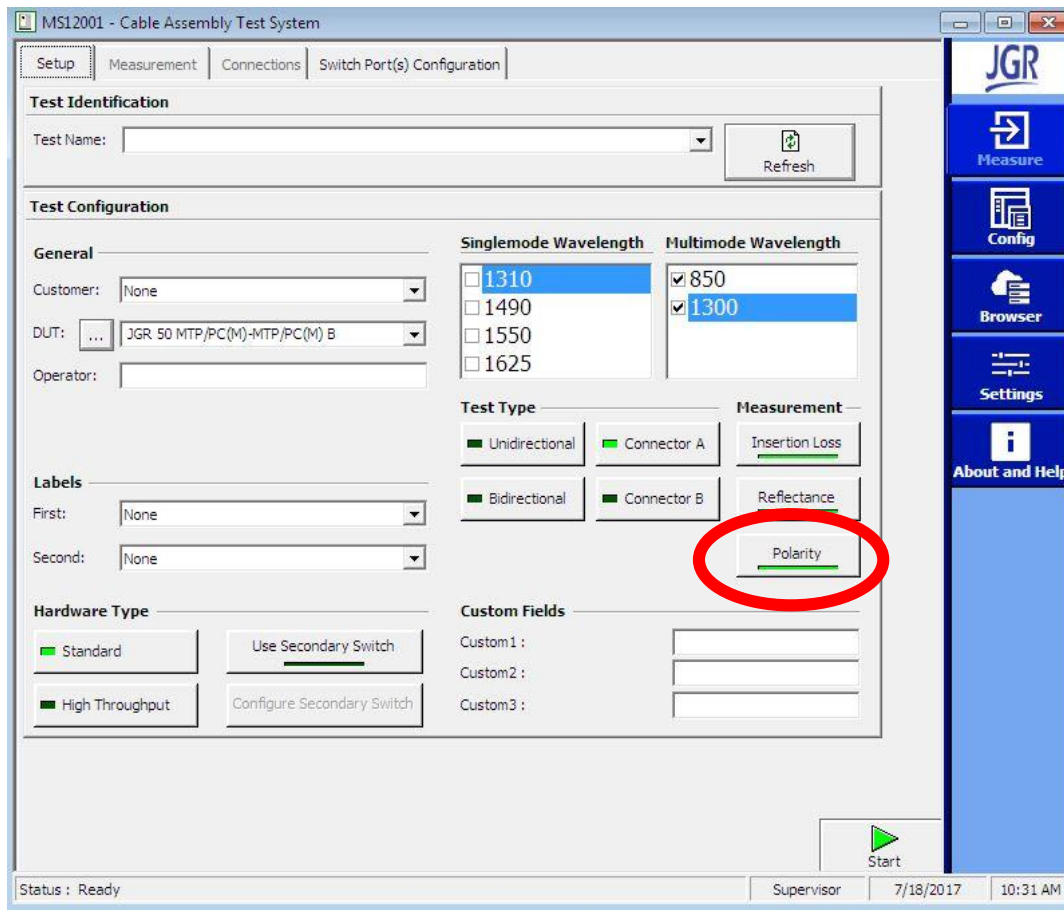
The configuration is divided into three sections:

- DUT Identification:**
 - Part number: JGR 50 MTP/PC(M)-MTP/PC(M) B
 - Description: 50um MTP/PC(M)-MTP/PC(M) B polarity
 - Manufacturer: JGR Optics Inc.
 - Maximum fiber length (m): 10
 - Fiber type: Multimode - 50um
 - Assembly type: Multifiber-to-Multifiber
 - Number of fibers: 12
 - Mandrel Free:
- DUT Configuration:**
 - End A: MTP/PC - Male
 - End B: MTP/PC - Male
 - IL limits: 0.5 dB
 - Ref. limits: -30 dB
- Polarity Type:**
 - Defined Type: B

At the bottom, there are buttons for Add, Delete, Copy To, Apply, and Cancel. The status bar at the very bottom shows 'Status : Ready', 'Supervisor', '7/18/2017', and '11:01 AM'.

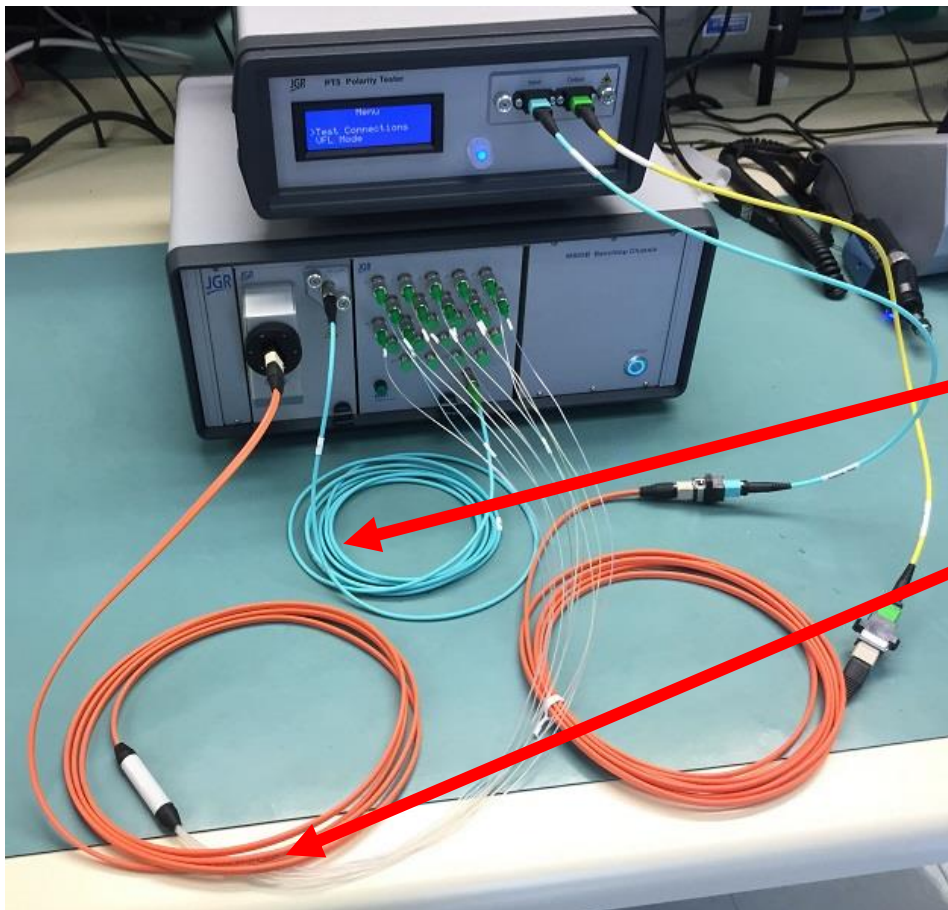
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2. Setup your test with the appropriate parameters



Integrating Polarity Testing in MS12001

3. Take an IL/RL reference by connecting the fanout from the MS7 switch to the MS12 detector

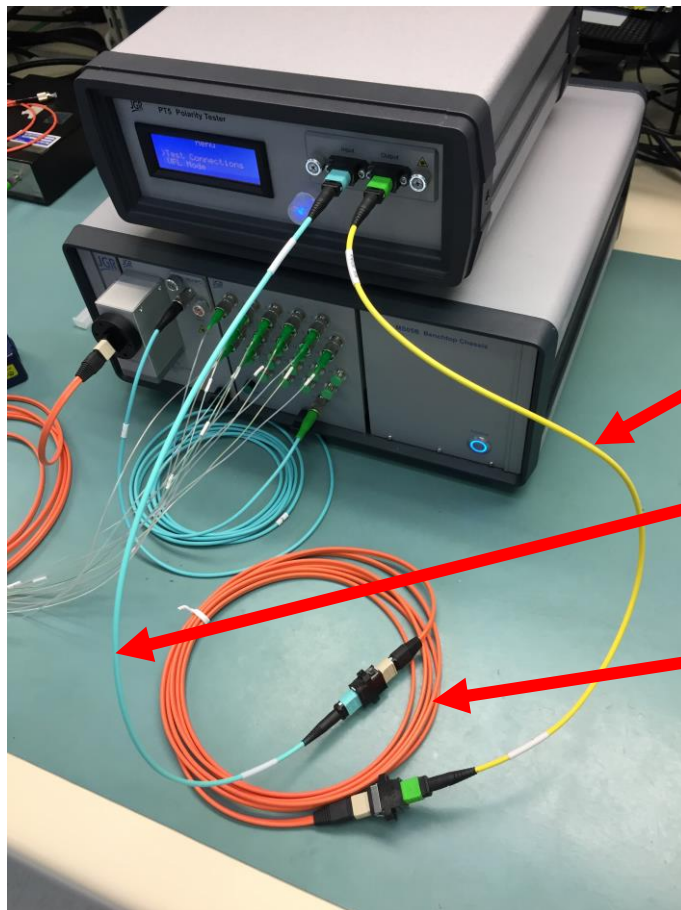


FC/UPC-FC/APC jumper from MS12 output to MS7 common

FC/APC-MTP/PC fanout from MS7 outputs to MS12 detector

Integrating Polarity Testing in MS12001

4. The software will pause and a pop-up will ask you to connect the DUT to the PT5



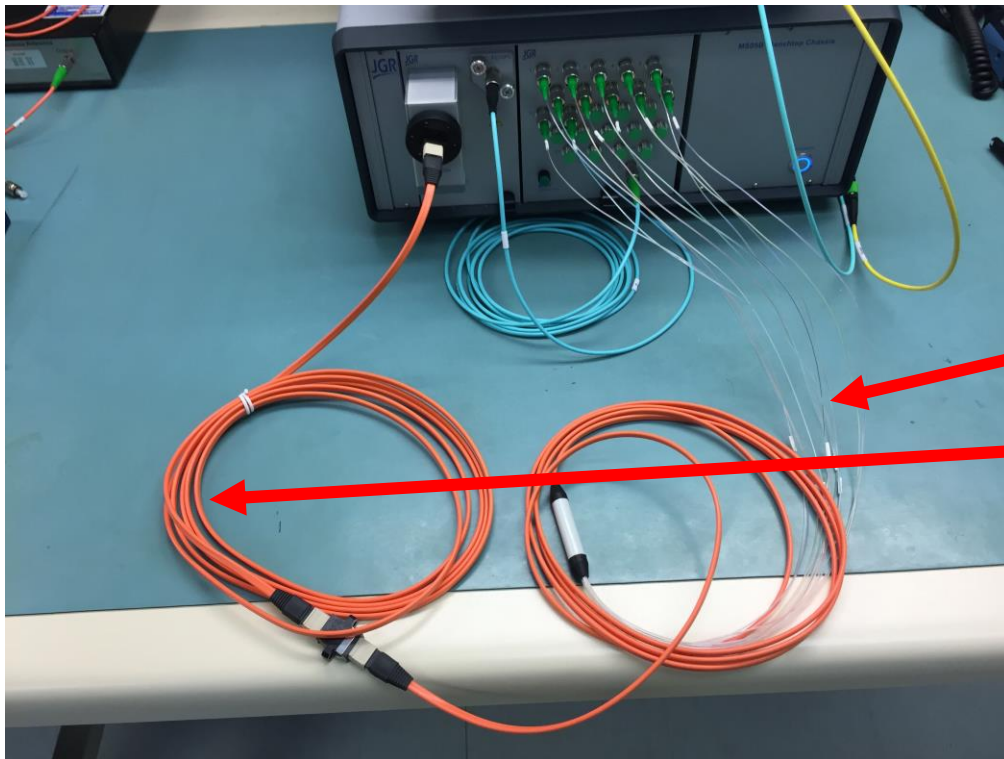
PT5 launch jumper (SM)

PT5 receive jumper (MM)

DUT

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5. Once the polarity test is complete, the software will pause again and ask you to connect the DUT to the IL/RL system



FC/APC-MTP/PC fanout

DUT

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6. Once complete, you may save the test to the database by entering a serial number and clicking Next DUT

MS12001 - Cable Assembly Test System

Setup Measurement Connections Switch Port(s) Configuration

F#	First Measurement		Ref (dB)		Polarity
	850	1300	850	1300	
1	0.044	0.070	-33.70	-38.73	12
2	0.045	0.068	-33.72	-38.73	11
3	0.046	0.125	-33.66	-39.22	10
4	0.134	0.170	-33.84	-38.75	9
5	0.047	0.069	-33.73	-38.76	8
6	0.045	0.070	-33.75	-38.79	7
7	0.046	0.073	-33.79	-38.83	6
8	0.045	0.069	-33.79	-38.88	5
9	0.044	0.069	-33.81	-38.89	4
10	0.045	0.070	-33.84	-38.95	3
11	0.045	0.067	-33.85	-38.98	2
12	0.044	0.069	-33.89	-39.02	1

Device Status : Warning

IL 850 --- dB
IL 1300 --- dB

Next DUT

Instructions:
Click on Next DUT to save the measurements and proceed with the next DUT.
Click on Print Label to save the measurements and print the specified label(s).

Monitoring
Fiber: 1
Wavelength: 850/1300
Stop Monitoring Start Monitoring

Hybrid Direction
First Direction
Second Direction

Print Label/Next DUT
Print Label Next DUT

Acquisition
Reference Stop
Measurement Start Single Start Continuous

Serial Number Auto Increment

Status : Ready Supervisor 18/07/2017 01:12 PM