

MS7 | Optical Switch



Product Description

The MS7 optical switches are available in a variety of configurations from 2x2, 1x2 to 1x72 for both single-mode and multimode fibers. They provide the flexibility required to configure the MS12001 system to support various applications like multiwavelength testing, multifiber connector testing or high-throughput configurations.

EXCLUSIVE TO JGR

The MS7 modular optical switches provide high performance at a reasonable cost and are exclusive to JGR for use in the MS12001 cable assembly and component test system.

KEY FEATURES

- Configurations from 2x2, 1x2 up to 1x72
- SM and MM
- RL: SM >60 dB / MM >40 dB
- IL 0.7 dB
- Available with fixed connectors
- FC/APC or FC/UPC

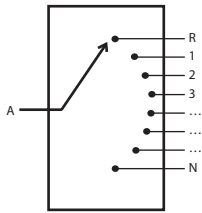
APPLICATIONS

- 4-wavelength, Multifiber and high-throughput applications

IN THE BOX

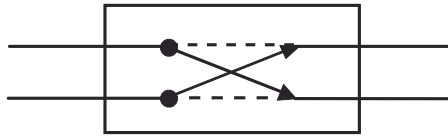
- MS7 Switch
- Test Report

Configuration Options;



A Configuration - Single input, switched to any output

2 X 2 CROSS-OVER



2X Configuration - Two inputs, switched straight through or cross-over

Ordering Scheme

MS7-1A - - 00B

OUTPUT SWITCH	
002	1x2
004	1x4
012	1x12
024	1x24
032	1x32
048	1x48
072	1x72

FIBER TYPE	
09	9/125 μ m
50	50/125 μ m
62	62.5/125 μ m

CONNECTOR TYPE	
FP	FC/UPC
FA	FC/APC

MS7-2X -002 - 00B

FIBER TYPE	
09	9/125 μ m
50	50/125 μ m
62	62.5/125 μ m

CONNECTOR TYPE	
FP	FC/UPC
FA	FC/APC

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Specifications

OPTICAL / ELECTRICAL SPECIFICATIONS				
Parameter	Specification			
	1x2, 2x2		1x4, 1x12, 1x24, 1x32, 1x48, 1x72	
	Single-mode	Multimode	Single-mode	Multimode
Wavelength Range (nm)	1280 - 1660	850 / 1310	1250 - 1670	840 - 1350
Insertion Loss (dB) ¹	0.7			
Return Loss (dB) ¹	> 50	> 35	> 60	> 40
PDL (dB)	≤ 0.05	N/A	≤ 0.05	N/A
Repeatability (random switching) (dB)	± 0.01		± 0.03	
Repeatability (sequential) (dB)	± 0.01		± 0.005	
Crosstalk (maximum) (dB)	-80			
Maximum Input Power (mW)	300			
Switching Time (ms)	10		300	
Switch Life	10 ⁸ cycles			

Notes:

¹ Excluding connectors.

MECHANICAL / ENVIRONMENTAL SPECIFICATIONS					
Parameter	Specification				
	1x2, 2x2	1x4, 1x12	1x24	1x32, 1x48	1x72
Number of slots	1	2	3	5	7
Unit Dimensions W x H x D (cm)	3.6 x 12.5 x 28.2	7.4 x 12.5 x 28.2	11.2 x 12.5 x 28.2	18.8 x 12.5 x 28.2	26.8 x 12.5 x 28.2
Shipping Box Dimensions W x H x D (cm)	43 x 27 x 47				
Unit Weight (kg)	0.5	0.7	0.9	1.4	2
Total Shipment Weight (kg)	From 1 (depending on number of modules purchased)				
Operating Temperature (°C)	0 to 40				
Storage Temperature (°C)	-40 to 60				
Humidity (Non-condensing) (°C)	Maximum 80% RH at 40				