

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 multi-mode fibers. They provide the flexibility required to configure the MS12001 system to support various applications like multi-wavelength testing, multifiber connector testing or high-throughput configurations.

EXCLUSIVE TO JGR

The MS7 modular optical switches provide high performance at 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

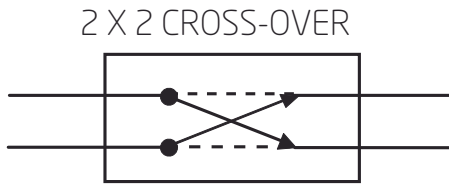
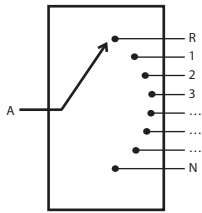
APPLICATIONS

- 4-wavelength, Multifiber and high-throughput applications

IN THE BOX

- MS7 Switch
- Test Report

Configuration Options;



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				