

Ø 3,2 TYP
[0.13]

@100 mm TYP

0.55 m TYP
(nom.)

65 TYP
[2.56]

THROUGHPUT

MFL-01X02

FIBER MARKING
SEE NOTE 1

0,9 TYP
[0.04]

INPUT

TAP

THROUGHPUT

FIBER MARKING
SEE NOTE 1

INPUT 2

PRODUCT MARKING
SEE NOTE 2

TAP

MFL-02X02

FIBER MARKING
SEE NOTE 1

INPUT 1

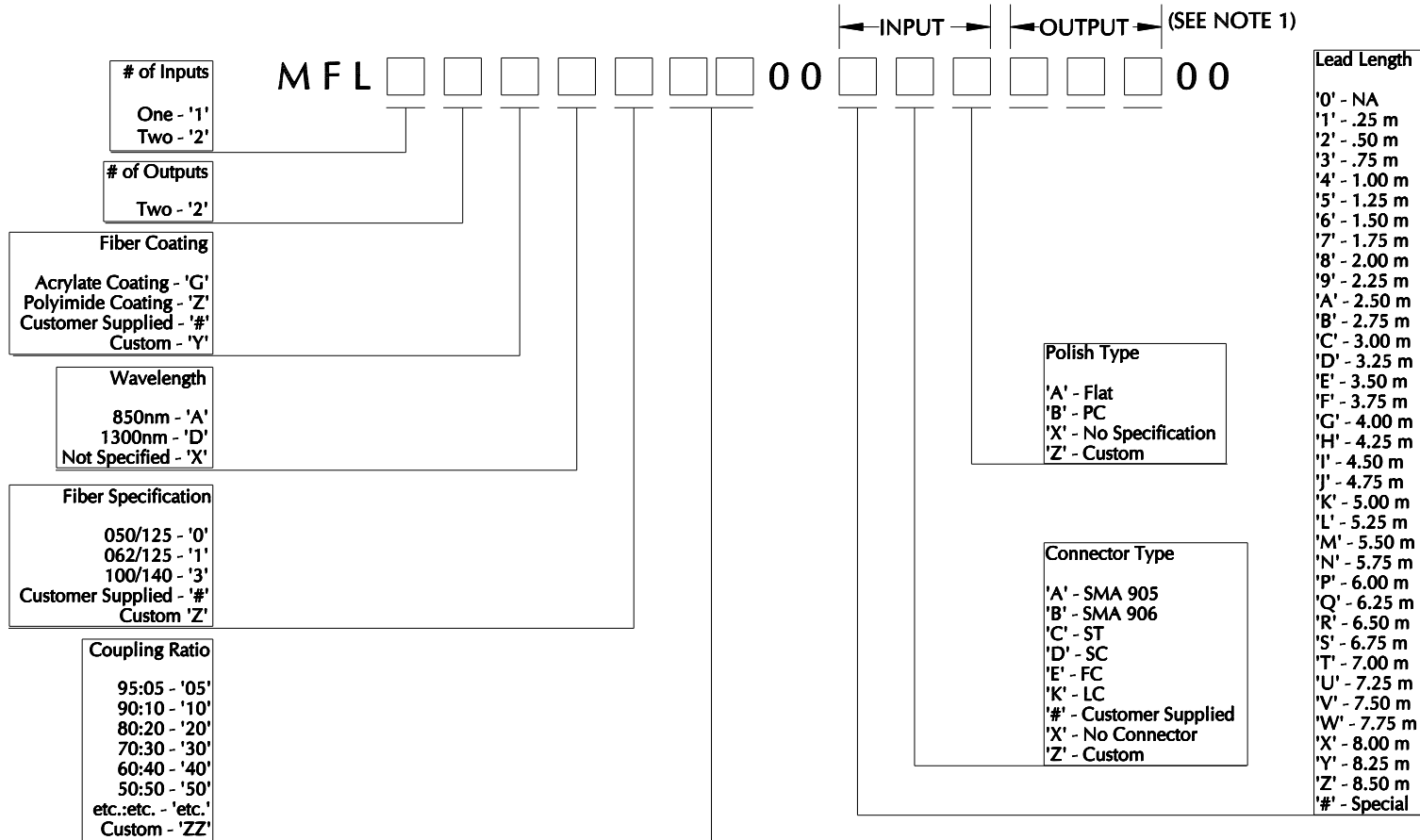
NOTES:

- 'TAP' & 'INPUT 2' FIBERS WILL BE MARKED IN BLACK IMMEDIATELY AFTER THE EXIT OF THE FIBER FROM THE HOUSING TUBE END FOR APPROXIMATELY 6 INCHES LONG. THERE IS NO MARKING ON 'THROUGHPUT' & 'INPUT 1' FIBERS.
- UNLESS OTHERWISE SPECIFIED, COUPLER MARKING TO BE LASER-MARKED WITH 'CANSTAR', CANSTAR PART DESCRIPTOR, AND SERIAL NUMBER.
- SEE SHEET 2 FOR PART NUMBER ORDERING INFORMATION.
- SEE SHEET 3 FOR CANSTAR PART DESCRIPTORS.
- SEE SHEET 4 & 5, TABLE A-1 & A-2, FOR OPTICAL PERFORMANCE SPECIFICATIONS.
- SEE SHEET 5, TABLE B, FOR CONNECTORIZED COUPLER SPECIFICATIONS.
- CONTACT US FOR COUPLERS WITH CUSTOMER SPECIALTY FIBERS, OR WITH CUSTOM SPECS.

STANDARD SPECIFICATION		
COUPLING	TESTED UNDER FULLY FILLED LAUNCH CONDITIONS	
WAVELENGTH	600nm TO 1600nm, TESTED @ 850nm OR 1300nm AS SPECIFIED	
DIRECTIVITY	> = 40dB @ 850nm (APPLICABLE 1X2 ONLY)	
THERMAL STABILITY	< = 0.002dB/1° C OVER -40° C TO +85° C (NON-CONNECTORIZED)	
TYPICAL UNIFORMITY	SPLITTERS	< = 1.0dB
	TAPS	NA
LEAD TYPE	0.9 mm PTFE LOOSE TUBE	
PACKAGING STYLE	T304 STAINLESS STEEL TUBE	

spec ref	dr asir 2012/05/25			projection 	size A4	scale 1.200		
tolerance std	eng asir 2012/07/04						MM [INCH]	ecn no ELX-S-012111-1
	chr - -							
surface ✓	appr John Wang 2012/07/04			title COUPLER, MXN, MULTIMODE 'FL' PACKAGE	dwg no MFL-MXN01	rev B		
	linear	0.X	±0.3					
		0.XX	±0.05					
		0.XXX	±					
angular	0°	±2°						
www.fci.com				cat. no.	Product - Customer Drw			
						sheet 1 of 6		

PART NUMBER ORDERING INFORMATION



NOTES:

- ORDERING OPTIONS FOR OUTPUTS ARE IDENTICAL TO INPUTS.
- NOMINAL LEAD LENGTH: 0.55 m
- SEE SHEET 5, TABLE B, FOR CONNECTOR SPECIFICATIONS.

spec ref	dr asir 2012/05/25			projection	MM [INCH]	size A4	scale N/A
tolerance std	eng asir 2012/07/04					ecn no ELX-S-012111-1	rel level Released
	chr -						
TOLERANCES UNLESS OTHERWISE SPECIFIED			appr John Wang 2012/07/04				rev B
surface	linear	0.X	±0.3		title COUPLER, MXN, MULTIMODE 'FL' PACKAGE	dwg no MFL-MXN01	rev B
		0.XX	±0.05				
		0.XXX	±				
	angular	0°	±2°	www.fci.com	cat. no.	Product - Customer Drw	sheet 2 of 6

CANSTAR PART DESCRIPTOR

MFL - X - / -

of Inputs
One - '01'
Two - '02'

of Outputs
Two - '02'

Core Diameter
50 um - '050'
62.5 um - '062'
100 um - '100'

Cladding Diameter (um)
125 um - '125'
140 um - '140'

Tap Ratio
5% - '05'
6% - '06'
50% - '50'

Tested Wavelength
850nm (Default) - 'NONE'
1300nm - 'D'



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spec ref		dr asir 2012/05/25		projection 	MM [INCH]	size A4	scale N/A
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED					ecn no ELX-S-012111-1	
						rel level Released	
surface <input checked="" type="checkbox"/>	linear	0.X ±0.3	FCI	title COUPLER, MXN, MULTIMODE 'FL' PACKAGE		dwg no MFL-MXN01	rev B
		0.XX ±0.05					
		0.XXX ±					
	angular	0° ±2°	www.fci.com	cat. no.	Product - Customer Drw		sheet 3 of 6

TABLE A-1							
PART DESCRIPTOR	WAVELENGTH (nm)	COUPLING RATIO (%)	MAXIMUM EXCESS LOSS (dB)	THROUGHPORT INSERTION LOSS (dB)		COUPLEDPORT INSERTION LOSS (dB)	
				MAXIMUM	MINIMUM	MAXIMUM	MINIMUM
MFL-01X02-050/125-50	850	50 ± 5	0.75	4.1	3.0	4.1	3.0
MFL-01X02-050/125-40	850	40 ± 5	0.75	3.4	2.0	5.3	3.6
MFL-01X02-050/125-30	850	30 ± 5	0.75	2.6	1.4	6.8	4.7
MFL-01X02-050/125-20	850	20 ± 3	0.75	1.9	0.9	8.5	6.5
MFL-01X02-050/125-10	850	10 ± 2	0.75	1.3	0.5	11.7	9.3
MFL-01X02-050/125-05	850	5 ± 2	0.75	1.1	0.2	16.0	11.7
MFL-01X02-062/125-50	850	50 ± 5	0.75	4.1	3.0	4.1	3.0
MFL-01X02-062/125-40	850	40 ± 5	0.75	3.4	2.0	5.3	3.6
MFL-01X02-062/125-30	850	30 ± 5	0.75	2.6	1.4	6.8	4.7
MFL-01X02-062/125-20	850	20 ± 3	0.75	1.9	0.9	8.5	6.5
MFL-01X02-062/125-10	850	10 ± 2	0.75	1.3	0.5	11.7	9.3
MFL-01X02-062/125-05	850	5 ± 2	0.75	1.1	0.2	16.0	11.7
MFL-01X02-100/140-50	850	50 ± 5	0.75	4.1	3.0	4.1	3.0
MFL-01X02-100/140-40	850	40 ± 5	0.75	3.4	2.0	5.3	3.6
MFL-01X02-100/140-30	850	30 ± 5	0.75	2.6	1.4	6.8	4.7
MFL-01X02-100/140-20	850	20 ± 3	0.75	1.9	0.9	8.5	6.5
MFL-01X02-100/140-10	850	10 ± 2	0.75	1.3	0.5	11.7	9.3
MFL-01X02-100/140-05	850	5 ± 2	0.75	1.1	0.2	16.0	11.7



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spec ref		dr asir 2012/05/25		projection 	MM [INCH]	size A4	scale N/A
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED					ecn no ELX-S-012111-1	
						rel level Released	
surface ✓	linear	0.X ±0.3		title COUPLER, MXN, MULTIMODE 'FL' PACKAGE	dwg no MFL-MXN01	rev B	
		0.XX ±0.05					
	angular	0° ±2°					
		www.fci.com	cat. no.	Product - Customer Drw		sheet 4 of 6	

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TABLE A-2							
PART DESCRIPTOR	WAVELENGTH (nm)	COUPLING RATIO (%)	MAXIMUM EXCESS LOSS (dB)	THROUGHPORT INSERTION LOSS (dB)		COUPLEDPORT INSERTION LOSS (dB)	
				MAXIMUM	MINIMUM	MAXIMUM	MINIMUM
MFL-02X02-050/125-50	850	50 ± 5	0.75	4.1	3.0	4.1	3.0
MFL-02X02-050/125-40	850	40 ± 5	0.75	3.4	2.0	5.3	3.6
MFL-02X02-050/125-30	850	30 ± 5	0.75	2.6	1.4	6.8	4.7
MFL-02X02-050/125-20	850	20 ± 3	0.75	1.9	0.9	8.5	6.5
MFL-02X02-050/125-10	850	10 ± 2	0.75	1.3	0.5	11.7	9.3
MFL-02X02-050/125-05	850	5 ± 2	0.75	1.1	0.2	16.0	11.7
MFL-02X02-062/125-50	850	50 ± 5	0.75	4.1	3.0	4.1	3.0
MFL-02X02-062/125-40	850	40 ± 5	0.75	3.4	2.0	5.3	3.6
MFL-02X02-062/125-30	850	30 ± 5	0.75	2.6	1.4	6.8	4.7
MFL-02X02-062/125-20	850	20 ± 3	0.75	1.9	0.9	8.5	6.5
MFL-02X02-062/125-10	850	10 ± 2	0.75	1.3	0.5	11.7	9.3
MFL-02X02-062/125-05	850	5 ± 2	0.75	1.1	0.2	16.0	11.7
MFL-02X02-100/140-50	850	50 ± 5	0.75	4.1	3.0	4.1	3.0
MFL-02X02-100/140-40	850	40 ± 5	0.75	3.4	2.0	5.3	3.6
MFL-02X02-100/140-30	850	30 ± 5	0.75	2.6	1.4	6.8	4.7
MFL-02X02-100/140-20	850	20 ± 3	0.75	1.9	0.9	8.5	6.5
MFL-02X02-100/140-10	850	10 ± 2	0.75	1.3	0.5	11.7	9.3
MFL-02X02-100/140-05	850	5 ± 2	0.75	1.1	0.2	16.0	11.7



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spec ref		dr asir 2012/05/25		projection 	MM [INCH]	size A4	scale N/A									
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED					ecn no ELX-S-012111-1										
	<table border="1"> <tr><td>linear</td><td>0.X</td><td>±0.3</td></tr> <tr><td></td><td>0.XX</td><td>±0.05</td></tr> <tr><td></td><td>0.XXX</td><td>±</td></tr> <tr><td>angular</td><td>0°</td><td>±2°</td></tr> </table>					linear	0.X	±0.3		0.XX	±0.05		0.XXX	±	angular	0°
linear	0.X	±0.3														
	0.XX	±0.05														
	0.XXX	±														
angular	0°	±2°														
surface				title COUPLER, MXN, MULTIMODE 'FL' PACKAGE www.fci.com cat. no.		dwg no MFL-MXN01 rev B										
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TABLE B			
CONNECTOR TYPE	POLISH TYPE	INSERTION LOSS / CONNECTOR (dB)	BACK REFLECTION (dB)
ST	FLAT	< = 0.5	Not Specified
	PC	< = 0.35	Please contact manufacturer for details
FC	FLAT	< = 0.5	Not Specified
	PC	< = 0.35	Please contact manufacturer for details
SC	FLAT	< = 0.5	Not Specified
	PC	< = 0.35	Please contact manufacturer for details
LC	FLAT	< = 0.5	Not Specified
	PC	< = 0.35	Please contact manufacturer for details
SMA 905	FLAT	< = 1.0	Not Specified
SMA 906	FLAT	< = 1.0	Not Specified

NOTES:

- PLEASE REFER TO COUPLER SPECIFICATION FOR INSERTION LOSS VALUES, AND ADD CONNECTOR INSERTION LOSS FROM TABLE.
- LEAD LENGTH TOLERANCE: +10cm / -0cm OF NOMINAL LENGTH.
- TEMPERATURE RANGE: -20° C TO +70° C

spec ref		dr asir 2012/05/25		projection 	MM [INCH]	size A4	scale N/A
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED					eng asir 2012/07/04	ecn no ELX-S-012111-1
surface ✓	linear	0.X	±0.3	FCi	title COUPLER, MXN, MULTIMODE 'FL' PACKAGE	dwg no MFL-MXN01	rev B
		0.XX	±0.05				
		0.XXX	±				
	angular	0°	±2°	www.fci.com	cat. no.	Product - Customer Drw	
						sheet 6 of 6	

