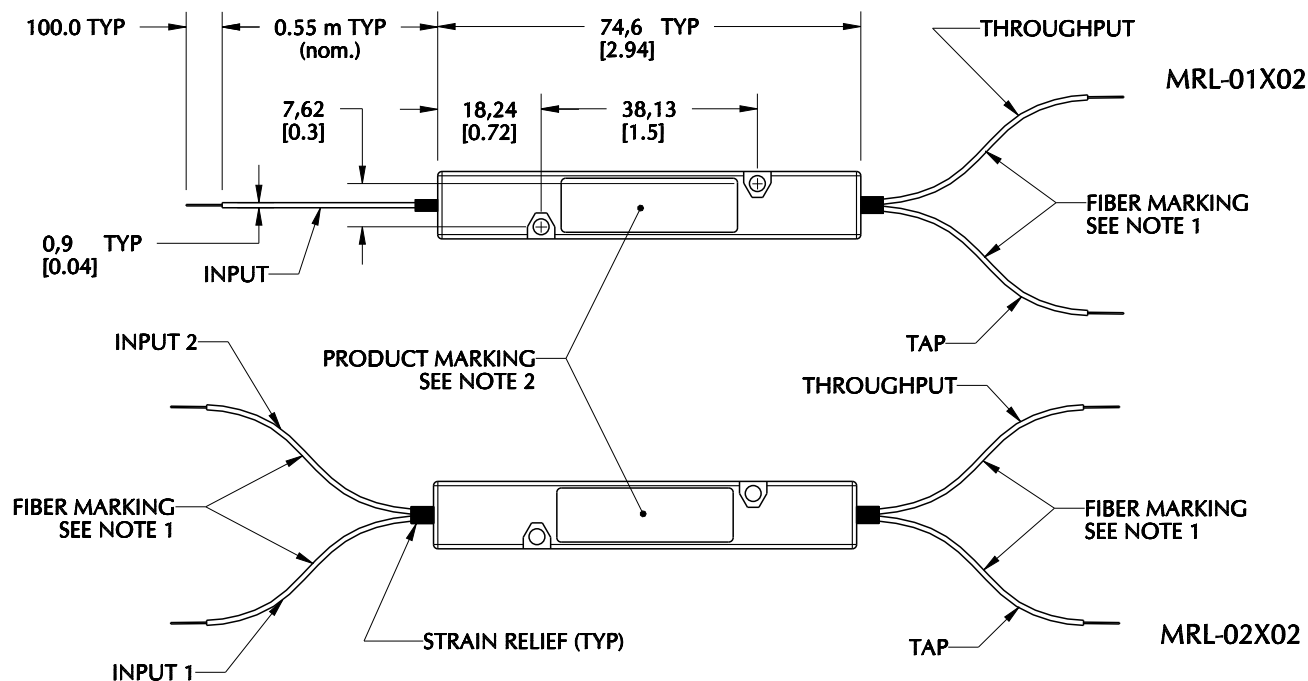
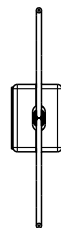
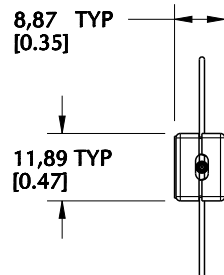




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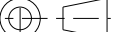


NOTES:

1. '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.
2. UNLESS OTHERWISE SPECIFIED, COUPLER MARKING TO BE LABELED WITH 'CANSTAR', CANSTAR PART DESCRIPTOR, AND SERIAL NUMBER.
3. SEE SHEET 2 FOR PART NUMBER ORDERING INFORMATION.
4. SEE SHEET 3 FOR CANSTAR PART DESCRIPTORS.
5. SEE SHEET 4 & 5, TABLE A-1 & A-2, FOR OPTICAL PERFORMANCE SPECIFICATIONS.
6. SEE SHEET 5, TABLE B, FOR CONNECTORIZED COUPLER SPECIFICATIONS.
7. 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	COMPACT RUGGEDIZED HOUSING	

spec ref				dr		asir		2012/06/05		projection 		MM [INCH] 		size		A4		scale		0.750									
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		asir		2012/07/05			ecn no				ELX-S-012119-1													
					chr		-		-			rel level				Released													
					appr		John Wang		2012/07/05											product family									
surface		linear		0.X		±0.3				title		COUPLER, MXN, MULTIMODE 'RL' PACKAGE						dwg no		MRL-MXN01						rev		C	
				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

PART NUMBER ORDERING INFORMATION									
← INPUT → ← OUTPUT → (SEE NOTE 1)									
# of Inputs	M	R	L						00
One - '1'									
Two - '2'									
# of Outputs									00
Two - '2'									
Fiber Coating									
Acrylate Coating - 'G'									
Polyimide Coating - 'Z'									
Customer Supplied - '#'									
Custom - 'Y'									
Wavelength									
850nm - 'A'									
1300nm - 'D'									
Not Specified - 'X'									
Fiber Specification									
050/125 - '0'									
062/125 - '1'									
100/140 - '3'									
Customer Supplied - '#'									
Custom 'Z'									
Coupling Ratio									
95:05 - '05'									
90:10 - '10'									
80:20 - '20'									
70:30 - '30'									
60:40 - '40'									
50:50 - '50'									
etc.:etc. - 'etc.'									
Custom - 'ZZ'									
Polish Type									
'A' - Flat									
'B' - PC									
'X' - No Specification									
'Z' - Custom									
Connector Type									
'A' - SMA 905									
'B' - SMA 906									
'C' - ST									
'D' - SC									
'E' - FC									
'K' - LC									
'#' - Customer Supplied									
'X' - No Connector									
'Z' - Custom									
Lead Length									
'0' - NA									
'1' - .25 m									
'2' - .50 m									
'3' - .75 m									
'4' - 1.00 m									
'5' - 1.25 m									
'6' - 1.50 m									
'7' - 1.75 m									
'8' - 2.00 m									
'9' - 2.25 m									
'A' - 2.50 m									
'B' - 2.75 m									
'C' - 3.00 m									
'D' - 3.25 m									
'E' - 3.50 m									
'F' - 3.75 m									
'G' - 4.00 m									
'H' - 4.25 m									
'I' - 4.50 m									
'J' - 4.75 m									
'K' - 5.00 m									
'L' - 5.25 m									
'M' - 5.50 m									
'N' - 5.75 m									
'P' - 6.00 m									
'Q' - 6.25 m									
'R' - 6.50 m									
'S' - 6.75 m									
'T' - 7.00 m									
'U' - 7.25 m									
'V' - 7.50 m									
'W' - 7.75 m									
'X' - 8.00 m									
'Y' - 8.25 m									
'Z' - 8.50 m									
'#' - Special									

NOTES:

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

spec ref				dr	asir	2012/06/05	projection	MM [INCH]	size	A4	scale	N/A		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	asir	2012/07/05			ecn no				ELX-S-012119-1	
				chr	-	-			rel level				Released	
				appr	John Wang	2012/07/05			product family					
surface	linear	0.X	±0.3		title	COUPLER, MXN, MULTIMODE 'RL' PACKAGE				dwg no	MRL-MXN01		rev	C
		0.XX	±0.05											
		0.XXX	±											
		angular	0°	±2°	www.fci.com	cat. no.			Product - Customer Drw			sheet 2 of 6		

CANSTAR PART DESCRIPTOR

MRL - X - / -

of Inputs

One - '01'
Two - '02'

of Outputs

Two - '02'

Core Diameter

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

Cladding Diameter (um)

125 mm - '125'
140 mm - '140'

Tap Ratio

5% - '05'
6% - '06'

50% - '50'

Tested Wavelength

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

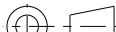
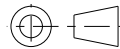
spec ref				dr	asir	2012/06/05	projection 	MM [INCH] 	size	A4	scale	N/A		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	asir	2012/07/05			ecn no				ELX-S-012119-1	
				chr	-	-			rel level				Released	
				appr	John Wang	2012/07/05			product family					
surface				FCI title COUPLER, MXN, MULTIMODE 'RL' PACKAGE				dwg no		MRL-MXN01		rev	C	
linear	0.X	±0.3												
	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
MRL-01X02-050/125-50	850	50 ± 5	0.75	4.1	3.0	4.1	3.0
MRL-01X02-050/125-40	850	40 ± 5	0.75	3.4	2.0	5.3	3.6
MRL-01X02-050/125-30	850	30 ± 5	0.75	2.6	1.4	6.8	4.7
MRL-01X02-050/125-20	850	20 ± 3	0.75	1.9	0.9	8.5	6.5
MRL-01X02-050/125-10	850	10 ± 2	0.75	1.3	0.5	11.7	9.3
MRL-01X02-050/125-05	850	5 ± 2	0.75	1.1	0.2	16.0	11.7
MRL-01X02-062/125-50	850	50 ± 5	0.75	4.1	3.0	4.1	3.0
MRL-01X02-062/125-40	850	40 ± 5	0.75	3.4	2.0	5.3	3.6
MRL-01X02-062/125-30	850	30 ± 5	0.75	2.6	1.4	6.8	4.7
MRL-01X02-062/125-20	850	20 ± 3	0.75	1.9	0.9	8.5	6.5
MRL-01X02-062/125-10	850	10 ± 2	0.75	1.3	0.5	11.7	9.3
MRL-01X02-062/125-05	850	5 ± 2	0.75	1.1	0.2	16.0	11.7
MRL-01X02-100/140-50	850	50 ± 5	0.75	4.1	3.0	4.1	3.0
MRL-01X02-100/140-40	850	40 ± 5	0.75	3.4	2.0	5.3	3.6
MRL-01X02-100/140-30	850	30 ± 5	0.75	2.6	1.4	6.8	4.7
MRL-01X02-100/140-20	850	20 ± 3	0.75	1.9	0.9	8.5	6.5
MRL-01X02-100/140-10	850	10 ± 2	0.75	1.3	0.5	11.7	9.3
MRL-01X02-100/140-05	850	5 ± 2	0.75	1.1	0.2	16.0	11.7

spec ref				dr		asir	2012/06/05	projection 	MM [INCH] 	size	A4	scale	N/A	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		asir	2012/07/05			ecn no				ELX-S-012119-1
				chr		-	-			rel level				Released
				appr		John Wang	2012/07/05	product family						
surface 	linear	0.X	±0.3		title	COUPLER, MXN, MULTIMODE 'RL' PACKAGE			dwg no	MRL-MXN01		rev		
		0.XX	±0.05									C		
		0.XXX	±											
	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
MRL-02X02-050/125-50	850	50± 5	0.75	4.1	3.0	4.1	3.0
MRL-02X02-050/125-40	850	40± 5	0.75	3.4	2.0	5.3	3.6
MRL-02X02-050/125-30	850	30± 5	0.75	2.6	1.4	6.8	4.7
MRL-02X02-050/125-20	850	20± 3	0.75	1.9	0.9	8.5	6.5
MRL-02X02-050/125-10	850	10± 2	0.75	1.3	0.5	11.7	9.3
MRL-02X02-050/125-05	850	5± 2	0.75	1.1	0.2	16.0	11.7
MRL-02X02-062/125-50	850	50± 5	0.75	4.1	3.0	4.1	3.0
MRL-02X02-062/125-40	850	40± 5	0.75	3.4	2.0	5.3	3.6
MRL-02X02-062/125-30	850	30± 5	0.75	2.6	1.4	6.8	4.7
MRL-02X02-062/125-20	850	20± 3	0.75	1.9	0.9	8.5	6.5
MRL-02X02-062/125-10	850	10± 2	0.75	1.3	0.5	11.7	9.3
MRL-02X02-062/125-05	850	5± 2	0.75	1.1	0.2	16.0	11.7
MRL-02X02-100/140-50	850	50± 5	0.75	4.1	3.0	4.1	3.0
MRL-02X02-100/140-40	850	40± 5	0.75	3.4	2.0	5.3	3.6
MRL-02X02-100/140-30	850	30± 5	0.75	2.6	1.4	6.8	4.7
MRL-02X02-100/140-20	850	20± 3	0.75	1.9	0.9	8.5	6.5
MRL-02X02-100/140-10	850	10± 2	0.75	1.3	0.5	11.7	9.3
MRL-02X02-100/140-05	850	5± 2	0.75	1.1	0.2	16.0	11.7

spec ref				dr	asir	2012/06/05	projection	MM [INCH]	size	A4	scale	N/A
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	asir	2012/07/05			ecn no	ELX-S-012119-1		
				chr	-	-						
				appr	John Wang	2012/07/05			product family		rel level	Released
surface	✓	linear	0.X	±0.3		title	COUPLER, MXN, MULTIMODE 'RL' PACKAGE	dwg no	MRL-MXN01	rev	C	
			0.XX	±0.05								
			0.XXX	±								
		angular	0°	±2°	www.fci.com	cat. no.	Product - Customer Drw			sheet 5 of 6		



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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:

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

spec ref				dr		asir		2012/06/05		projection		MM [INCH]		size		A4		scale		N/A													
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED				eng		asir						2012/07/05		ecn no				ELX-S-012119-1													
						chr		-						-		rel level				Released													
						appr		John Wang						2012/07/05		product family																	
surface		linear		0.X		±0.3				title		COUPLER, MXN, MULTIMODE 'RL' PACKAGE						dwg no		MRL-MXN01						rev		C					
																														0.XX		±0.05	
																														0.XXX		±	
		angular		0°		±2°																								www.fci.com		cat. no.	

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