

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.

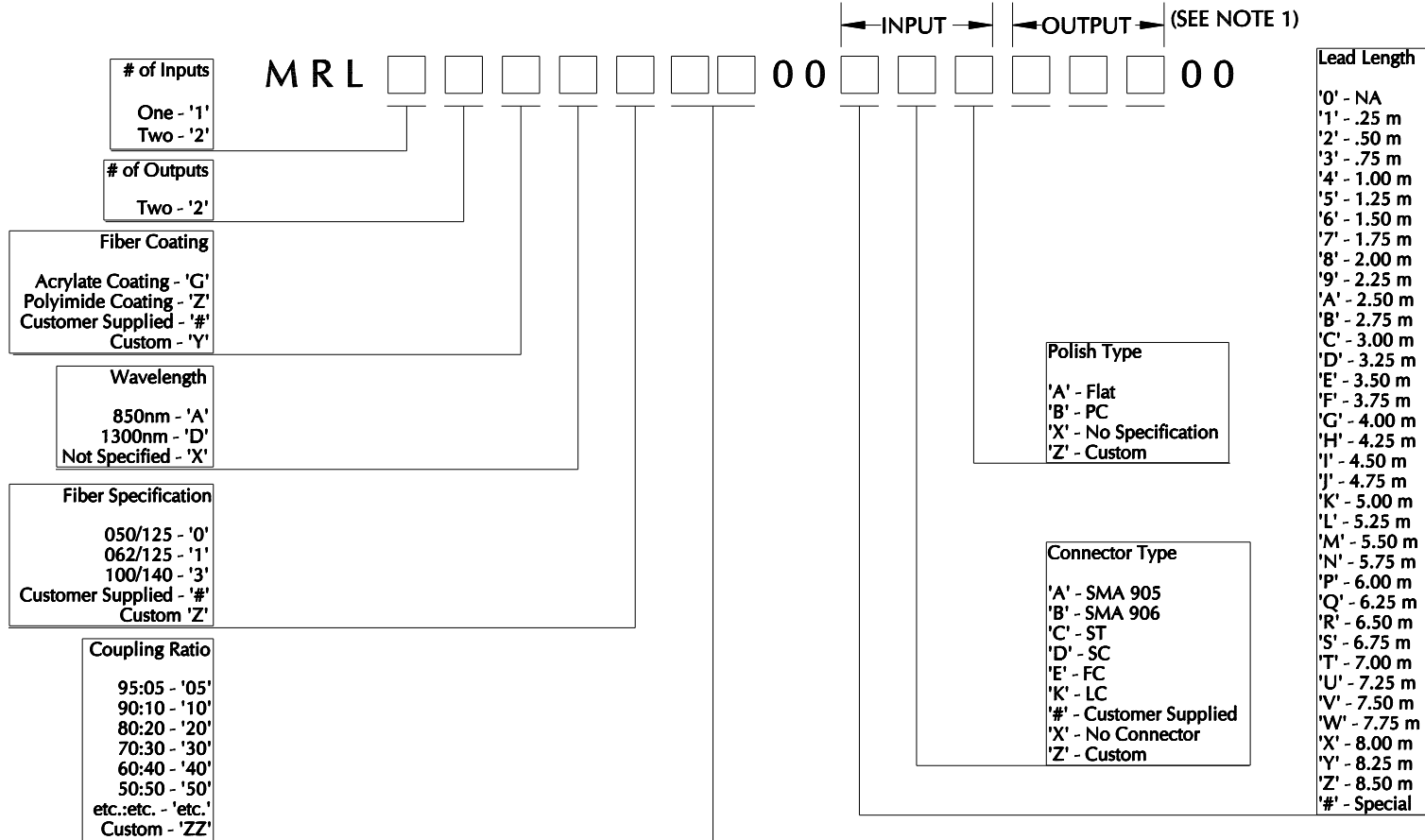
STANDARD SPECIFICATION		
COUPLING	TESTED UNDER FULLY FILLED LAUNCH CONDITIONS	
WAVELENGTH	600nm TO 1600nm, TESTED @ 850nm OR 1300nm AS SPECIFIED	
DIRECTIVITY	> = 40dB @ 850nm (APPLICABLE 1X2 ONLY)	
THERMAL STABILITY	< = 0.002dB/1° C OVER -40° C TO +85° C (NON-CONNECTORIZED)	
TYPICAL UNIFORMITY	SPLITTERS	< = 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 	size A4	scale 0.750	
tolerance std	eng asir 2012/07/05						
	chr -						
TOLERANCES UNLESS OTHERWISE SPECIFIED				product family	ecn no ELX-S-012119-1	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 1 of 6



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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 2012/06/05		projection	size A4	scale N/A
tolerance std	eng asir 2012/07/05			MM [INCH]	ecn no ELX-S-012119-1
	chr -				
surface	linear	0.X ±0.3	product family	rel level Released	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 m m - '125'
140 m m - '140'

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

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



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spec ref		dr	asir	2012/06/05	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		
surface	linear	0.X	±0.3	appr	John Wang	2012/07/05	product family						
		0.XX	±0.05	www.fci.com		cat. no.	title		COUPLER, MXN, MULTIMODE 'RL' PACKAGE	dwg no	MRL-MXN01	rev	C
	angular	0°	±2°									Product - Customer Drw	

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	
surface		linear	0.X	±0.3	FCj	title	COUPLER, MXN, MULTIMODE 'RL' PACKAGE	dwg no	MRL-MXN01	rev
	angular	0°	±2°	www.fci.com						

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



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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	
surface <input checked="" type="checkbox"/>		linear	appr	John Wang	2012/07/05	product family			MRL-MXN01	rev C
			0.X	±0.3		title COUPLER, MXN, MULTIMODE 'RL' PACKAGE				
	0.XX		±0.05							
0.XXX	±									
	angular	0°	±2°	www.fci.com	cat. no.	Product - Customer Drw		sheet 5 of 6		

PrdE File - REV C - 2009-06-09



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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 INSERTION 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					ecn no ELX-S-012119-1	
						rel level Released	
surface ✓	linear	0.X ±0.3	FCI	title COUPLER, MXN, MULTIMODE 'RL' PACKAGE	dwg no MRL-MXN01	rev C	
		0.XX ±0.05					
		0.XXX ±	www.fci.com				cat. no.
angular	0° ±2°						