

NOTES:

1. 'TAP' & 'INPUT 2' FIBERS WILL BE MARKED '2' WITH LABEL MARKER APPROXIMATELY 10.0 cm FROM EACH END OF THE LEAD OR CONNECTOR. 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 | ∅ 2.5 mm REINFORCED JACKET - BLACK |
| PACKAGING STYLE | COMPACT RUGGEDIZED HOUSING |

| | | | | | | | | | | | | | |
|---------------|---------------------------------------|-------|-------|----------------|--------------|----------------|-----------|----------------|----------|------------------------|--------------|--|--|
| spec ref | dr asir 2012/06/07 | | | projection | MM [INCH] | size | A4 | scale | 0.750 | | | | |
| tolerance std | eng asir 2012/07/05 | | | | | product family | ecn no | ELX-S-012122-1 | | | | | |
| | chr - | | | | | | rel level | Released | | | | | |
| surface ✓ | appr John Wang 2012/07/05 | | | title | dwg no | MRP-MXN01 | rev | B | | | | | |
| | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | | | | | www.fci.com | cat. no. | Product - Customer Drw | sheet 1 of 6 | | |
| | linear | 0.X | ±0.3 | | | | | | | | | | |
| | | 0.XX | ±0.05 | | | | | | | | | | |
| | | 0.XXX | ± | | | | | | | | | | |
| | angular | 0° | ±2° | | | | | | | | | | |

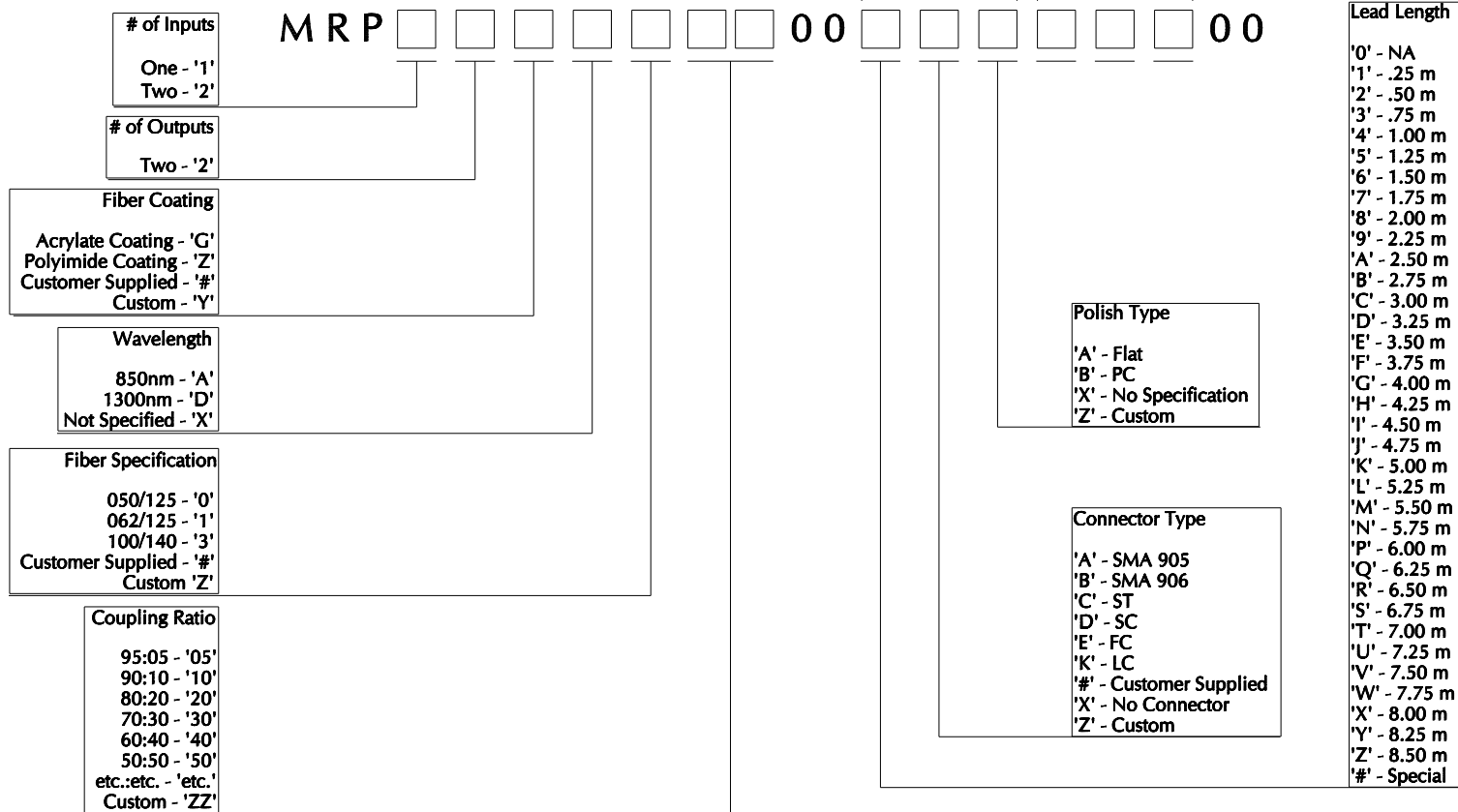
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PART NUMBER ORDERING INFORMATION

← INPUT → ← OUTPUT → (SEE NOTE 1)



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 | 2012/06/07 | projection | MM [INCH] | size | A4 | scale | N/A | |
| tolerance std | | eng | asir | 2012/07/05 | | | ecn no | ELX-S-012122-1 | | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | - | - | | | rel level | Released | | | |
| surface | linear | 0.X | ±0.3 | | FCi | title | COUPLER, MXN, MULTIMODE 'RP' PACKAGE | | | rev | |
| | | 0.XX | ±0.05 | | | | | | | | |
| | | 0.XXX | ± | | | | | | | | |
| | angular | 0° | ±2° | | www.fci.com | cat. no. | Product - Customer Drw | | | sheet 2 of 6 | |
| | | | | | | | MRP-MXN01 | | B | | |

CANSTAR PART DESCRIPTOR

MRP - 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 | 2012/06/07 | projection | MM [INCH] | size | A4 | scale | N/A | |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | | | asir | 2012/07/05 | ecn no | | ELX-S-012122-1 |
| | | | | chr | | | - | - | rel level | | Released |
| surface | linear | 0.X | ±0.3 | FCI | title | COUPLER, MXN, MULTIMODE 'RP' PACKAGE | dwg no | MRP-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 |
| MRP-01X02-050/125-50 | 850 | 50 ± 5 | 0.75 | 4.1 | 3.0 | 4.1 | 3.0 |
| MRP-01X02-050/125-40 | 850 | 40 ± 5 | 0.75 | 3.4 | 2.0 | 5.3 | 3.6 |
| MRP-01X02-050/125-30 | 850 | 30 ± 5 | 0.75 | 2.6 | 1.4 | 6.8 | 4.7 |
| MRP-01X02-050/125-20 | 850 | 20 ± 3 | 0.75 | 1.9 | 0.9 | 8.5 | 6.5 |
| MRP-01X02-050/125-10 | 850 | 10 ± 2 | 0.75 | 1.3 | 0.5 | 11.7 | 9.3 |
| MRP-01X02-050/125-05 | 850 | 5 ± 2 | 0.75 | 1.1 | 0.2 | 16.0 | 11.7 |
| MRP-01X02-062/125-50 | 850 | 50 ± 5 | 0.75 | 4.1 | 3.0 | 4.1 | 3.0 |
| MRP-01X02-062/125-40 | 850 | 40 ± 5 | 0.75 | 3.4 | 2.0 | 5.3 | 3.6 |
| MRP-01X02-062/125-30 | 850 | 30 ± 5 | 0.75 | 2.6 | 1.4 | 6.8 | 4.7 |
| MRP-01X02-062/125-20 | 850 | 20 ± 3 | 0.75 | 1.9 | 0.9 | 8.5 | 6.5 |
| MRP-01X02-062/125-10 | 850 | 10 ± 2 | 0.75 | 1.3 | 0.5 | 11.7 | 9.3 |
| MRP-01X02-062/125-05 | 850 | 5 ± 2 | 0.75 | 1.1 | 0.2 | 16.0 | 11.7 |
| MRP-01X02-100/140-50 | 850 | 50 ± 5 | 0.75 | 4.1 | 3.0 | 4.1 | 3.0 |
| MRP-01X02-100/140-40 | 850 | 40 ± 5 | 0.75 | 3.4 | 2.0 | 5.3 | 3.6 |
| MRP-01X02-100/140-30 | 850 | 30 ± 5 | 0.75 | 2.6 | 1.4 | 6.8 | 4.7 |
| MRP-01X02-100/140-20 | 850 | 20 ± 3 | 0.75 | 1.9 | 0.9 | 8.5 | 6.5 |
| MRP-01X02-100/140-10 | 850 | 10 ± 2 | 0.75 | 1.3 | 0.5 | 11.7 | 9.3 |
| MRP-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 2012/06/07 | | projection | MM [INCH] | size A4 | scale N/A |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | | | ecn no ELX-S-012122-1 | |
| | | | | | | rel level Released | |
| surface ✓ | linear | 0.X ±.3 | | title COUPLER, MXN, MULTIMODE 'RP' PACKAGE | dwg no MRP-MXN01 | rev B | |
| | | 0.XX ±0.05 | | | | | |
| | | 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 |
| MRP-02X02-050/125-50 | 850 | 50±5 | 0.75 | 4.1 | 3.0 | 4.1 | 3.0 |
| MRP-02X02-050/125-40 | 850 | 40±5 | 0.75 | 3.4 | 2.0 | 5.3 | 3.6 |
| MRP-02X02-050/125-30 | 850 | 30±5 | 0.75 | 2.6 | 1.4 | 6.8 | 4.7 |
| MRP-02X02-050/125-20 | 850 | 20±3 | 0.75 | 1.9 | 0.9 | 8.5 | 6.5 |
| MRP-02X02-050/125-10 | 850 | 10±2 | 0.75 | 1.3 | 0.5 | 11.7 | 9.3 |
| MRP-02X02-050/125-05 | 850 | 5±2 | 0.75 | 1.1 | 0.2 | 16.0 | 11.7 |
| MRP-02X02-062/125-50 | 850 | 50±5 | 0.75 | 4.1 | 3.0 | 4.1 | 3.0 |
| MRP-02X02-062/125-40 | 850 | 40±5 | 0.75 | 3.4 | 2.0 | 5.3 | 3.6 |
| MRP-02X02-062/125-30 | 850 | 30±5 | 0.75 | 2.6 | 1.4 | 6.8 | 4.7 |
| MRP-02X02-062/125-20 | 850 | 20±3 | 0.75 | 1.9 | 0.9 | 8.5 | 6.5 |
| MRP-02X02-062/125-10 | 850 | 10±2 | 0.75 | 1.3 | 0.5 | 11.7 | 9.3 |
| MRP-02X02-062/125-05 | 850 | 5±2 | 0.75 | 1.1 | 0.2 | 16.0 | 11.7 |
| MRP-02X02-100/140-50 | 850 | 50±5 | 0.75 | 4.1 | 3.0 | 4.1 | 3.0 |
| MRP-02X02-100/140-40 | 850 | 40±5 | 0.75 | 3.4 | 2.0 | 5.3 | 3.6 |
| MRP-02X02-100/140-30 | 850 | 30±5 | 0.75 | 2.6 | 1.4 | 6.8 | 4.7 |
| MRP-02X02-100/140-20 | 850 | 20±3 | 0.75 | 1.9 | 0.9 | 8.5 | 6.5 |
| MRP-02X02-100/140-10 | 850 | 10±2 | 0.75 | 1.3 | 0.5 | 11.7 | 9.3 |
| MRP-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 2012/06/07 | | projection | MM [INCH] | size A4 | scale N/A | |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | | | eng asir 2012/07/05 | ecn no ELX-S-012122-1 | rel level Released |
| | | | | | | chr - | | |
| surface ✓ | linear 0.X ±0.3 0.XX ±0.05 0.XXX ± | | title COUPLER, MXN, MULTIMODE 'RP' PACKAGE | product family | dwg no MRP-MXN01 | rev B | | |
| | 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:

- 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 2012/06/07 | | projection | MM [INCH] | size A4 | scale N/A |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | | | eng asir 2012/07/05 | ecn no ELX-S-012122-1 |
| | | | | | | chr - | |
| surface <input checked="" type="checkbox"/> | linear | | appr John Wang 2012/07/05 | product family | | rel level Released | |
| | | 0.X ±0.3 | | title COUPLER, MXN, MULTIMODE 'RP' PACKAGE | dwg no MRP-MXN01 | rev B | |
| | | 0.XX ±0.05 | | | | | |
| | | 0.XXX ± | | | | | |
| | angular | 0° ±2° | www.fci.com | cat. no. | Product - Customer Drw | sheet 6 of 6 | |