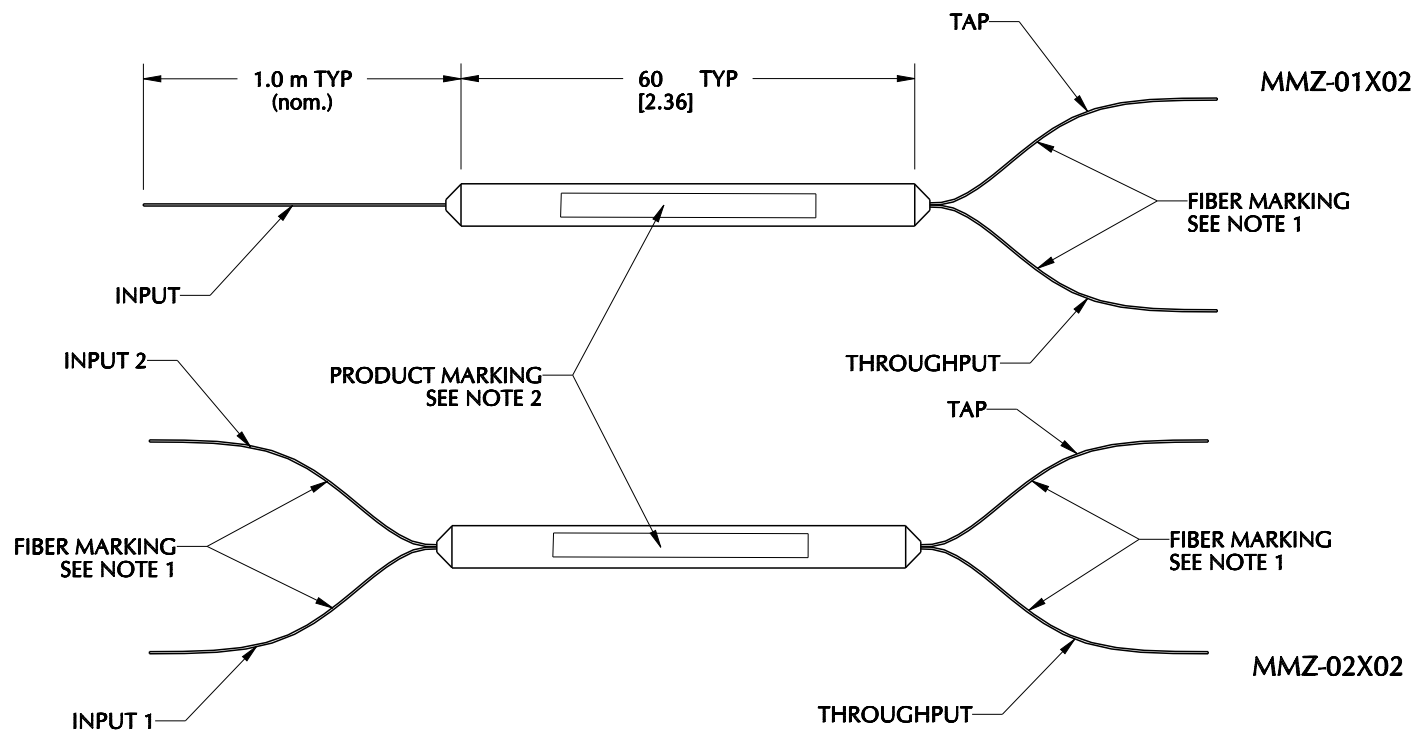
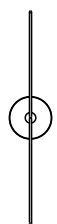
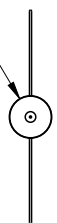




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Ø5,6 TYP
[0.22]



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 | BARE, POLYIMIDE COATED |
| PACKAGING STYLE | T304 STAINLESS STEEL TUBE |

| | | | | | | | |
|---------------------------------------|---------------------|---------------------------|------------------------|--|------------------|-----------------------|-------------|
| spec ref | dr asir 2012/05/22 | | | projection | MM [INCH] | size A4 | scale 1.000 |
| tolerance std | eng asir 2012/07/05 | | | | | ecn no ELX-S-012129-1 | |
| | chr - | | | | | rel level Released | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | appr John Wang 2012/07/05 | | | product family | rev C | |
| surface ✓ | linear | 0.X ±0.3 | FCI | title COUPLER, MXN, MULTIMODE 'MZ' PACKAGE | dwg no MMZ-MXN01 | www.fci.com | |
| | | 0.XX ±0.05 | | | | | |
| | | 0.XXX ± | | | | | |
| angular | 0° ±2° | cat. no. | Product - Customer Drw | | sheet 1 of 6 | | |

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PART NUMBER ORDERING INFORMATION

← INPUT → ← OUTPUT → (SEE NOTE 1)

of Inputs
One - '1'
Two - '2'

MMZ 00 00

of Outputs
Two - '2'

Fiber Coating
Polyimide Coating - 'Z'
Customer Supplied - '#'
Custom - 'Y'

Wavelength
850nm - 'A'
1300nm - 'D'
Not Specified - 'X'

Fiber Specification
200/220 - '4'
200/240 - '5'
300/330 - '7'
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: 1.0 m



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| | | | | | | | | | | | | | |
|---------------------------------------|---------|-------|-------|------------|----------------|--------------|---|----------------|-------|--------------|-----------|-----|---|
| spec ref | | dr | asir | 2012/05/22 | projection | MM [INCH] | size | A4 | scale | N/A | | | |
| tolerance std | | eng | asir | 2012/07/05 | | | ecn no | ELX-S-012129-1 | | | | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | - | - | | | rel level | Released | | | | | |
| surface | linear | 0.X | ±0.3 | | FCI | title | COUPLER, MXN, MULTIMODE 'MZ' PACKAGE | | | dwg no | MMZ-MXN01 | rev | C |
| | | 0.XX | ±0.05 | | | | | | | | | | |
| | | 0.XXX | ± | | | | | | | | | | |
| | angular | 0° | ±2° | | www.fci.com | cat. no. | Product - Customer Drw | | | sheet 2 of 6 | | | |

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CANSTAR PART DESCRIPTOR

MMZ - X - / -

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

of Outputs
Two - '02'

Core Diameter
200um - '200'
300um - '300'

Cladding Diameter (um)
220 um - '220'
240 um - '240'
330 um - '330'

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

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



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| | | | | | | | |
|---|---------------------------------------|--------------------|----------|--|------------------|-----------------------|-----------|
| spec ref | | dr asir 2012/05/22 | | projection | MM [INCH] | size A4 | scale N/A |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | | | ecn no ELX-S-012129-1 | |
| | | | | | | rel level Released | |
| surface <input checked="" type="checkbox"/> | linear | 0.X ±0.3 | FCI | title COUPLER, MXN, MULTIMODE 'MZ' PACKAGE | dwg no MMZ-MXN01 | rev C | |
| | 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) | THROUGHPUT INSERTION LOSS (dB) | | COUPLEDPORT INSERTION LOSS (dB) | |
|----------------------|-----------------|--------------------|--------------------------|--------------------------------|---------|---------------------------------|---------|
| | | | | MAXIMUM | MINIMUM | MAXIMUM | MINIMUM |
| MMZ-01X02-200/220-50 | 850 | 50 ± 5 | 0.75 | 4.1 | 3.0 | 4.1 | 3.0 |
| MMZ-01X02-200/220-40 | 850 | 40 ± 5 | 0.75 | 3.4 | 2.0 | 5.3 | 3.6 |
| MMZ-01X02-200/220-30 | 850 | 30 ± 5 | 0.75 | 2.6 | 1.4 | 6.8 | 4.7 |
| MMZ-01X02-200/220-20 | 850 | 20 ± 3 | 0.75 | 1.9 | 0.9 | 8.5 | 6.5 |
| MMZ-01X02-200/220-10 | 850 | 10 ± 2 | 0.75 | 1.3 | 0.5 | 11.7 | 9.3 |
| MMZ-01X02-200/220-05 | 850 | 05 ± 2 | 0.75 | 1.1 | 0.2 | 16.0 | 11.7 |
| MMZ-01X02-200/240-50 | 850 | 50 ± 5 | 0.75 | 4.1 | 3.0 | 4.1 | 3.0 |
| MMZ-01X02-200/240-40 | 850 | 40 ± 5 | 0.75 | 3.4 | 2.0 | 5.3 | 3.6 |
| MMZ-01X02-200/240-30 | 850 | 30 ± 5 | 0.75 | 2.6 | 1.4 | 6.8 | 4.7 |
| MMZ-01X02-200/240-20 | 850 | 20 ± 3 | 0.75 | 1.9 | 0.9 | 8.5 | 6.5 |
| MMZ-01X02-200/240-10 | 850 | 10 ± 2 | 0.75 | 1.3 | 0.5 | 11.7 | 9.3 |
| MMZ-01X02-200/240-05 | 850 | 05 ± 2 | 0.75 | 1.1 | 0.2 | 16.0 | 11.7 |



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| | | | | | | | |
|---|---------------------------------------|--------------------|--|--|--------------|--|-----------|
| spec ref | | dr asir 2012/05/22 | | projection | MM [INCH] | size A4 | scale N/A |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | | | ecn no ELX-S-012129-1 | |
| | | | | | | rel level Released | |
| appr John Wang 2012/07/05 | product family | | | dwg no MMZ-MXN01 | | rev C | |
| surface <input checked="" type="checkbox"/> | linear | 0.X ±0.3 | | title COUPLER, MXN, MULTIMODE 'MZ' PACKAGE | | www.fci.com cat. no. Product - Customer Drw sheet 4 of 6 | |
| | | 0.XX ±0.05 | | | | | |
| | angular | 0° ±2° | | | | | |

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TABLE A-2

| PART DESCRIPTOR | WAVELENGTH (nm) | COUPLING RATIO (%) | MAXIMUM EXCESS LOSS (dB) | THROUGHPUT INSERTION LOSS (dB) | | COUPLEDPORT INSERTION LOSS (dB) | |
|----------------------|-----------------|--------------------|--------------------------|--------------------------------|---------|---------------------------------|---------|
| | | | | MAXIMUM | MINIMUM | MAXIMUM | MINIMUM |
| MMZ-02X02-200/220-50 | 850 | 50 ± 5 | 0.75 | 4.1 | 3.0 | 4.1 | 3.0 |
| MMZ-02X02-200/220-40 | 850 | 40 ± 5 | 0.75 | 3.4 | 2.0 | 5.3 | 3.6 |
| MMZ-02X02-200/220-30 | 850 | 30 ± 5 | 0.75 | 2.6 | 1.4 | 6.8 | 4.7 |
| MMZ-02X02-200/220-20 | 850 | 20 ± 3 | 0.75 | 1.9 | 0.9 | 8.5 | 6.5 |
| MMZ-02X02-200/220-10 | 850 | 10 ± 2 | 0.75 | 1.3 | 0.5 | 11.7 | 9.3 |
| MMZ-02X02-200/220-05 | 850 | 05 ± 2 | 0.75 | 1.1 | 0.2 | 16.0 | 11.7 |
| MMZ-02X02-200/240-50 | 850 | 50 ± 5 | 0.75 | 4.1 | 3.0 | 4.1 | 3.0 |
| MMZ-02X02-200/240-40 | 850 | 40 ± 5 | 0.75 | 3.4 | 2.0 | 5.3 | 3.6 |
| MMZ-02X02-200/240-30 | 850 | 30 ± 5 | 0.75 | 2.6 | 1.4 | 6.8 | 4.7 |
| MMZ-02X02-200/240-20 | 850 | 20 ± 3 | 0.75 | 1.9 | 0.9 | 8.5 | 6.5 |
| MMZ-02X02-200/240-10 | 850 | 10 ± 2 | 0.75 | 1.3 | 0.5 | 11.7 | 9.3 |
| MMZ-02X02-200/240-05 | 850 | 05 ± 2 | 0.75 | 1.1 | 0.2 | 16.0 | 11.7 |



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| | | | | | | | | |
|---|---------------------------------------|--------------------|----------|--|--------------|---------------------|-----------------------|--------------------|
| spec ref | | dr asir 2012/05/22 | | projection | MM [INCH] | size A4 | scale N/A | |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | | | eng asir 2012/07/05 | ecn no ELX-S-012129-1 | rel level Released |
| | | | | | | chr - | | |
| surface <input checked="" type="checkbox"/> | linear | 0.X ±0.3 | FCI | title COUPLER, MXN, MULTIMODE 'MZ' PACKAGE | | dwg no MMZ-MXN01 | rev C | |
| | | 0.XX ±0.05 | | | | | | |
| | 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 |
| 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 2012/05/22 | | projection | MM [INCH] | size A4 | scale N/A |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | | | eng asir 2012/07/05 | ecn no ELX-S-012129-1 |
| | | | | | | chr - | |
| surface <input checked="" type="checkbox"/> | | appr John Wang 2012/07/05 | | product family | | rel level Released | |
| linear | 0.X | ±0.3 | | title COUPLER, MXN, MULTIMODE 'MZ' PACKAGE | dwg no MMZ-MXN01 | rev C | |
| | 0.XX | ±0.05 | | | | | |
| | 0.XXX | ± | | | | | |
| angular | 0° | ±2° | www.fci.com | cat. no. | Product - Customer Drw | sheet 6 of 6 | |