

## Bi-Convex lenses



### Performance Specifications

| Parameter          | Specifications                        |
|--------------------|---------------------------------------|
| Material           | BK7, UV, grade fused silica           |
| Diameter Tolerance | +0,00/ -0.05mm                        |
| Focal length       | ±1%                                   |
| Centration         | 0.005mm                               |
| Clear aperture     | 90% of the diameter                   |
| Center Thickness   | ± 0.02mm                              |
| Scratch and dig    | 60-40, 40-20, 10-5                    |
| Surface Accuracy   | $\lambda/4$ , $\lambda/10$ , at 633nm |
| Customized Specs   | Available upon request as per drawing |

### Ordering Information

#### BICX • BK7 & UV Fused Silica Lenses Bi-Convex

| Part Number      | Focal Length<br><i>f</i> (mm) | Diameter<br>$\theta$ (mm) | Material |
|------------------|-------------------------------|---------------------------|----------|
| BICX-F4.5-D5     | 4.5                           | 5.0                       | BK7      |
| BICX-F7-D5       | 7.0                           | 5.0                       | BK7      |
| BICX-F8-D6       | 8.0                           | 6.0                       | BK7      |
| BICX-F10-D5      | 10.0                          | 5.0                       | BK7      |
| BICX-F10-D7.5    | 10.0                          | 7.5                       | BK7      |
| BICX-F10-D10     | 10.0                          | 10.0                      | BK7      |
| BICX-F10-D5-UV   | 10.0                          | 5.0                       | UVFS     |
| BICX-F10-D10-UV  | 10.0                          | 10.0                      | UVFS     |
| BICX-F12.5-D12.5 | 12.5                          | 12.5                      | BK7      |
| BICX-F15-D7.5    | 15.0                          | 7.5                       | BK7      |
| BICX-F15-D12.5   | 15.0                          | 12.5                      | BK7      |
| BICX-F18-D13     | 18.0                          | 13.0                      | BK7      |
| BICX-F20-D15     | 20.0                          | 15.0                      | BK7      |
| BICX-F22-D20     | 22.0                          | 20.0                      | BK7      |
| BICX-F25-D10     | 25.0                          | 10.0                      | BK7      |
| BICX-F25-D15     | 25.0                          | 15.0                      | BK7      |
| BICX-F25-D22.4   | 25.0                          | 22.4                      | BK7      |
| BICX-F25-D25.4   | 25.0                          | 25.4                      | BK7      |
| BICX-F25-D10-UV  | 25.0                          | 10.0                      | UVFS     |
| BICX-F25-D15-UV  | 25.0                          | 15.0                      | UVFS     |
| BICX-F25-D25-UV  | 25.0                          | 25.0                      | UVFS     |
| BICX-F25.4-D12.7 | 25.4                          | 12.7                      | BK7      |
| BICX-F25.4-D20   | 25.4                          | 20.0                      | BK7      |
| BICX-F25.4-D25.4 | 25.4                          | 25.4                      | BK7      |
| BICX-F28.6-D12.7 | 28.6                          | 12.7                      | BK7      |

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| Part Number      | Focal Length<br><i>f</i> (mm) | Diameter<br>Ø (mm) | Material |
|------------------|-------------------------------|--------------------|----------|
| BICX-F30-D12.5   | 30.0                          | 12.5               | BK7      |
| BICX-F30-D22.4   | 30.0                          | 22.4               | BK7      |
| BICX-F30-D30     | 30.0                          | 30.0               | BK7      |
| BICX-F35-D19.5   | 35.0                          | 19.5               | BK7      |
| BICX-F35-D25.4   | 35.0                          | 25.4               | BK7      |
| BICX-F38.1-D25.4 | 38.1                          | 25.4               | BK7      |
| BICX-F38.1-D31.7 | 38.1                          | 31.7               | BK7      |
| BICX-F38.1-D38.1 | 38.1                          | 38.1               | BK7      |
| BICX-F40-D12.5   | 40.0                          | 12.5               | BK7      |
| BICX-F40-D22.4   | 40.0                          | 22.4               | BK7      |
| BICX-F40-D25     | 40.0                          | 25.0               | BK7      |
| BICX-F45-D38     | 45.0                          | 38.0               | BK7      |
| BICX-F50-D12.5   | 50.0                          | 12.5               | BK7      |
| BICX-F50-D15     | 50.0                          | 15.0               | BK7      |
| BICX-F50-D22.4   | 50.0                          | 22.4               | BK7      |
| BICX-F50-D25.4   | 50.0                          | 25.4               | BK7      |
| BICX-F50-D30     | 50.0                          | 30.0               | BK7      |
| BICX-F50-D38.1   | 50.0                          | 38.1               | BK7      |
| BICX-F50-D42     | 50.0                          | 42.0               | BK7      |
| BICX-F50-D50     | 50.0                          | 50.0               | BK7      |
| BICX-F50-D25-UV  | 50.0                          | 25.0               | UVFS     |
| BICX-F50-D40-UV  | 50.0                          | 40.0               | UVFS     |
| BICX-F50-D50-UV  | 50.0                          | 50.0               | UVFS     |
| BICX-F50.8-D38.1 | 50.8                          | 38.1               | BK7      |
| BICX-F50.8-D50.8 | 50.8                          | 50.8               | BK7      |
| BICX-F50.8-D60   | 50.8                          | 60.0               | BK7      |
| BICX-F54-D32     | 54.0                          | 32.0               | BK7      |
| BICX-F60-D15     | 60.0                          | 15.0               | BK7      |
| BICX-F60-D22.4   | 60.0                          | 22.4               | BK7      |
| BICX-F60-D25.4   | 60.0                          | 25.4               | BK7      |
| BICX-F60-D38.1   | 60.0                          | 38.1               | BK7      |
| BICX-F60-D50     | 60.0                          | 50.0               | BK7      |
| BICX-F65-D35     | 65.0                          | 35.0               | BK7      |
| BICX-F65-D42     | 65.0                          | 42.0               | BK7      |
| BICX-F70-D30     | 70.0                          | 30.0               | BK7      |
| BICX-F70-D42     | 70.0                          | 42.0               | BK7      |
| BICX-F70-D60     | 70.0                          | 60.0               | BK7      |
| BICX-F75-D12.5   | 75.0                          | 12.5               | BK7      |
| BICX-F75-D25.4   | 75.0                          | 25.4               | BK7      |
| BICX-F75-D38.1   | 75.0                          | 38.1               | BK7      |
| BICX-F75-D50.8   | 75.0                          | 50.8               | BK7      |
| BICX-F75-D25-UV  | 75.0                          | 25.0               | UVFS     |
| BICX-F75-D50-UV  | 75.0                          | 50.0               | UVFS     |
| BICX-F80-D25.4   | 80.0                          | 25.4               | BK7      |
| BICX-F80-D50.8   | 80.0                          | 50.8               | BK7      |
| BICX-F90-25.4    | 90.0                          | 25.4               | BK7      |
| BICX-F100-D12.5  | 100.0                         | 12.5               | BK7      |
| BICX-F100-D22.4  | 100.0                         | 22.4               | BK7      |
| BICX-F100-D25.4  | 100.0                         | 25.4               | BK7      |
| BICX-F100-D30    | 100.0                         | 30.0               | BK7      |
| BICX-F100-D38.1  | 100.0                         | 38.1               | BK7      |
| BICX-F100-D42    | 100.0                         | 42.0               | BK7      |

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| Part Number       | Focal Length<br><i>f</i> (mm) | Diameter<br>Ø (mm) | Material |
|-------------------|-------------------------------|--------------------|----------|
| BICX-F100-D50.8   | 100.0                         | 50.8               | BK7      |
| BICX-F100-D25-UV  | 100.0                         | 25.0               | UVFS     |
| BICX-F100-D40-UV  | 100.0                         | 40.0               | UVFS     |
| BICX-F100-D50-UV  | 100.0                         | 50.0               | UVFS     |
| BICX-F100-D75-UV  | 100.0                         | 75.0               | UVFS     |
| BICX-F125-D25     | 125.0                         | 25.0               | BK7      |
| BICX-F125-D38.1   | 125.0                         | 38.1               | BK7      |
| BICX-F125-D50     | 125.0                         | 50.0               | BK7      |
| BICX-F150-D22.4   | 150.0                         | 22.4               | BK7      |
| BICX-F150-D25     | 150.0                         | 25.0               | BK7      |
| BICX-F150-D30     | 150.0                         | 30.0               | BK7      |
| BICX-F150-D42     | 150.0                         | 42.0               | BK7      |
| BICX-F150-D50     | 150.0                         | 50.0               | BK7      |
| BICX-F150-D75     | 150.0                         | 75.0               | BK7      |
| BICX-F150-D100    | 150.0                         | 100.0              | BK7      |
| BICX-F150-D25-UV  | 150.0                         | 25.0               | UVFS     |
| BICX-F150-D50-UV  | 150.0                         | 50.0               | UVFS     |
| BICX-F150-D75-UV  | 150.0                         | 75.0               | UVFS     |
| BICX-F175-D12.5   | 175.0                         | 12.5               | BK7      |
| BICX-F175-D25     | 175.0                         | 25.0               | BK7      |
| BICX-F200-D25     | 200.0                         | 25.0               | BK7      |
| BICX-F200-D30     | 200.0                         | 30.0               | BK7      |
| BICX-F200-D38.1   | 200.0                         | 38.1               | BK7      |
| BICX-F200-D42     | 200.0                         | 42.0               | BK7      |
| BICX-F200-D50.0   | 200.0                         | 50.0               | BK7      |
| BICX-F200-D75     | 200.0                         | 75.0               | BK7      |
| BICX-F200-D25-UV  | 200.0                         | 25.0               | UVFS     |
| BICX-F200-D50-UV  | 200.0                         | 50.0               | UVFS     |
| BICX-F250-D12.5   | 250.0                         | 12.5               | BK7      |
| BICX-F250-D25     | 250.0                         | 25.0               | BK7      |
| BICX-F250-D50     | 250.0                         | 50.0               | BK7      |
| BICX-F250-D25-UV  | 250.0                         | 25.0               | UVFS     |
| BICX-F250-D50-UV  | 250.0                         | 50.0               | UVFS     |
| BICX-F300-D25.4   | 300.0                         | 25.4               | BK7      |
| BICX-F300-D50.8   | 300.0                         | 50.8               | BK7      |
| BICX-F300-D25-UV  | 300.0                         | 25.0               | UVFS     |
| BICX-F300-D50-UV  | 300.0                         | 50.0               | UVFS     |
| BICX-F500-D25.4   | 500.0                         | 25.4               | BK7      |
| BICX-F500-D38.1   | 500.0                         | 38.1               | BK7      |
| BICX-F500-D50.8   | 500.0                         | 50.8               | BK7      |
| BICX-F500-D80     | 500.0                         | 80.0               | BK7      |
| BICX-F500-D25-UV  | 500.0                         | 25.0               | UVFS     |
| BILCX-F500-D50-UV | 500.0                         | 50.0               | UVFS     |
| BICX-F1000-D25.4  | 1000.0                        | 25.4               | BK7      |
| BICX-F1000-D38.1  | 1000.0                        | 38.1               | BK7      |
| BICX-F1000-D50.8  | 1000.0                        | 50.8               | BK7      |
| BICX-F2000-D25    | 2000.0                        | 25.0               | BK7      |
| BICX-F2000-D50    | 2000.0                        | 50.0               | BK7      |