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# Fiber Optic Image Conduits



- Fused Glass Optical Fiber Rods with Ground and Polished Faces
- Coherent Arrangement of Fibers Relays Images
- Rigid Rods Bend Under Heat to Almost Any Orientation

## Common Specifications

### General

|                       |        |
|-----------------------|--------|
| Packing Fraction (%): | 100.00 |
|-----------------------|--------|

### Physical & Mechanical Properties

|                              |        |
|------------------------------|--------|
| Diameter Tolerance (inches): | ±0.010 |
|------------------------------|--------|

|                            |        |
|----------------------------|--------|
| Length Tolerance (inches): | ±0.030 |
|----------------------------|--------|

### Optical Properties

|                   |         |
|-------------------|---------|
| Transmission (%): | 35 - 45 |
|-------------------|---------|

|                                          |      |
|------------------------------------------|------|
| Index of Refraction ( $n_d$ )<br>- Core: | 1.58 |
|------------------------------------------|------|

|                        |            |
|------------------------|------------|
| Wavelength Range (nm): | 350 - 1500 |
|------------------------|------------|

### Material Properties

|                                  |        |
|----------------------------------|--------|
| Transformation Temperature (°C): | 704.00 |
|----------------------------------|--------|

### Environmental & Durability Factors

|                             |        |
|-----------------------------|--------|
| Operating Temperature (°C): | 454.00 |
|-----------------------------|--------|

## Technical Information

## Products

| Title                                                  | Stock Number            | Price                                     | Buy          |
|--------------------------------------------------------|-------------------------|-------------------------------------------|--------------|
| 25.4mm High Resolution Image Conduit with 12µm Fibers  | <a href="#">#53-839</a> | £139.40<br><a href="#">Volume Pricing</a> | 4 In Stock   |
| 76.2mm High Resolution Image Conduit with 12µm Fibers  | <a href="#">#53-840</a> | £158.95<br><a href="#">Volume Pricing</a> | 20+ In Stock |
| 152.4mm High Resolution Image Conduit with 12µm Fibers | <a href="#">#38-301</a> | £158.95<br><a href="#">Volume Pricing</a> | 2 In Stock   |
| 304.8mm High Resolution Image Conduit with 12µm Fibers | <a href="#">#38-302</a> | £280.50<br><a href="#">Volume Pricing</a> | 5 In Stock   |
| 25.4mm High Resolution Image Conduit with 24µm Fibers  | <a href="#">#53-841</a> | £180.20<br><a href="#">Volume Pricing</a> | 4 In Stock   |
| 76.2mm High Resolution Image Conduit with 24µm Fibers  | <a href="#">#53-842</a> | £250.75<br><a href="#">Volume Pricing</a> | 3 In Stock   |
| 152.4mm High Resolution Image Conduit with 24µm Fibers | <a href="#">#38-303</a> | £339.15<br><a href="#">Volume Pricing</a> | 1 In Stock   |
| 304.8mm High Resolution Image Conduit with 24µm Fibers | <a href="#">#38-304</a> | £556.75<br><a href="#">Volume Pricing</a> | Contact Us   |
| 25.4mm Standard Res Image Conduit with 25µm Fibers     | <a href="#">#53-843</a> | £102.85<br><a href="#">Volume Pricing</a> | 8 In Stock   |
| 76.2mm Standard Res Image Conduit with 25µm Fibers     | <a href="#">#53-844</a> | £118.15<br><a href="#">Volume Pricing</a> | 20+ In Stock |
| 152.4mm Standard Res Image Conduit with 25µm Fibers    | <a href="#">#38-305</a> | £129.20<br><a href="#">Volume Pricing</a> | 5 In Stock   |
| 304.8mm Standard Res Image Conduit with 25µm Fibers    | <a href="#">#38-306</a> | £211.65<br><a href="#">Volume Pricing</a> | 5 In Stock   |
| 25.4mm Standard Res Image Conduit with 50µm Fibers     | <a href="#">#53-845</a> | £139.40<br><a href="#">Volume Pricing</a> | 1 In Stock   |
| 76.2mm Standard Res Image Conduit with 50µm Fibers     | <a href="#">#53-846</a> | £158.95<br><a href="#">Volume Pricing</a> | 4 In Stock   |
| 152.4mm Standard Res Image Conduit with 50µm Fibers    | <a href="#">#40-642</a> | £180.20<br><a href="#">Volume Pricing</a> | 5 In Stock   |
| 304.8mm Standard Res Image Conduit with 50µm Fibers    | <a href="#">#40-643</a> | £306.85<br><a href="#">Volume Pricing</a> | 2 In Stock   |

|                                                         |                         |                                           |            |
|---------------------------------------------------------|-------------------------|-------------------------------------------|------------|
| 25.4mm Standard Res Image Conduit with<br>100µm Fibers  | <a href="#">#53-847</a> | £139.40<br><a href="#">Volume Pricing</a> | 3 In Stock |
| 76.2mm Standard Res Image Conduit with<br>100µm Fibers  | <a href="#">#53-848</a> | £214.20<br><a href="#">Volume Pricing</a> | 1 In Stock |
| 152.4mm Standard Res Image Conduit with<br>100µm Fibers | <a href="#">#38-307</a> | £239.70<br><a href="#">Volume Pricing</a> | 2 In Stock |
| 304.8mm Standard Res Image Conduit with<br>100µm Fibers | <a href="#">#38-308</a> | £422.45<br><a href="#">Volume Pricing</a> | 7 In Stock |



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