Optran® HUV, Optran® HWF
Silica fiber with hard polymer cladding

Armadillo® offers its Optran® HUV / HWF fibers as a cost-effective alternative to silica / silica fibers. They provide high numerical aperture values, minimal bend losses and efficient connectorisation for a wide range of applications.

### Technical data

<table>
<thead>
<tr>
<th>Wavelength / spectral range</th>
<th>Optran® HUV and Optran® HWF: 350 – 2200 nm</th>
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</thead>
<tbody>
<tr>
<td>Numerical aperture (NA)</td>
<td>0.37 ± 0.02</td>
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<tr>
<td>Operating temperature</td>
<td>-40 to +150 °C</td>
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<tr>
<td>Core diameter</td>
<td>Available from 100 to 2000 µm</td>
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<td>ÖH content</td>
<td>Optran® HUV: high (&gt; 1000 ppm)</td>
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<td></td>
<td>Optran® HWF: low (&lt; 1 ppm)</td>
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<td>Standard proof test</td>
<td>100 kpsi</td>
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<tr>
<td>Minimum bending radius</td>
<td>50 × cladding diameter (short-term mechanical stress)</td>
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<td></td>
<td>150 × core diameter (during use with high laser power)</td>
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</tbody>
</table>

### Advantages

- Cost-effective (compared to silica / silica fibers)
- High concentricity
- All dielectric, non-magnetic design
- Step-index profile
- Biocompatible material
- Sterilisable using ETO and other methods
Attenuation values
The following diagrams provide an overview of attenuation values relative to the wavelengths:

Optran® Ultra HUV

Optran® Ultra HWF

Applications
- First choice for applications from remote illumination to photodynamic therapy and many more.
- Your advantages
- Over 500 Optran® UV and Optran® WF fibers in stock Non-standard diameters and NA values available
- Option of fully customised fiber production
- A complete solution for all your performance needs
- ISO 9001 compliant manufacturing environment
- CE mark

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