Light String

Long Uniformity

Brightness

End Light

Flexibility

Heat Resistance
3M™ Light String for Ambient Lighting

3M Light String is a methacrylic polymer, single-core optical fiber that provides uniform brightness, high temperature durability and superior flexibility specifically for automotive applications.

To develop Light String, 3M utilized its methacrylic and fluorocarbon polymer technology and its experience in manufacturing optical fiber for the construction market. Ten years in the making, this optical fiber employs a core with a special transparent methacrylic polymer to convert the small amount of light from an LED light source into a longer, more uniform linear light source. What’s more, Light String’s superior flexibility enables the creation of freely curved 3D light designs.

Select from the following Light String products to match your design application.

**Ray Milky Flex 63**

Diameter 6.3mm / When not lit : Milky White

**Ray Milky Flex 35**

Diameter 3.5mm / When not lit : Milky White
Application Concepts
The sharp, long line provides freedom of light design

Product: 3M™ Light String Ray Milky Flex 35
Fiber Length: about 2,000mm

LED light sources (blue) are positioned at both ends of the optic fiber.

Application Concepts
Functional illumination aided by end light

Product:
3M™ Light String Ray Milky Flex 35
Fiber Length: 1,500mm

- An LED light source is positioned at one end of the optic fiber.
- The light emitted at the other end of the optic fiber is used effectively as a courtesy lamp.
### Product data-3M™ Light String

<table>
<thead>
<tr>
<th>Model</th>
<th>Ray Milky Flex 63</th>
<th>Ray Milky Flex 35</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specifications and outerdiameter</td>
<td>φ6.3±0.3mm</td>
<td>φ3.5±0.2mm</td>
</tr>
<tr>
<td>Color (when unlit)</td>
<td>Milky White</td>
<td>Milky White</td>
</tr>
<tr>
<td>Coefficient of thermal expansion</td>
<td>1.0x10^{-4}/K</td>
<td>1.0x10^{-4}/K</td>
</tr>
<tr>
<td>Allowable input light</td>
<td>400nm~720nm</td>
<td>400nm~720nm</td>
</tr>
</tbody>
</table>

*Please refer to Technical Data Sheet for details. (Ray Milky Flex 35/TR-13956, Ray Milky Flex 35/TR-13957)*

### Side luminance

![Graph showing luminance versus distance from light source for Ray Milky Flex 63 and Ray Milky Flex 35](image)

*Remarks*

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