As a countermeasure against disconnection due to a species of cicada called the “bear cicada” (which occur on optical-fiber input (“drop”) cables to houses, particularly those in western Japan), a “drop optical fiber with cicada resistance” has been developed. This is an optical drop fiber that maintains the workability of a conventional optical drop fiber with non-cicada resistance as a result of optimization of the structure and sheath material of the fiber cable.

**Features**

- Optical-fiber core is protected from the ovipositor of a cicada by hard sheath.
- Cicada resistance is achieved without impairing fiber workability by optimizing material hardness and cross-sectional structure.
- Compatibility with related products is assured by utilizing the same structure and dimensions as conventional drop cable.

**Application scenarios**

- Drop cable to houses, apartment blocks, and office buildings

### Overview

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### Comparison with non-cicada resistant drop cable

<table>
<thead>
<tr>
<th></th>
<th>Drop cable with non-cicada resistance</th>
<th>Developed product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross section</td>
<td>Sheath with non-cicada resistance 2.0 x 5.3 (mm)</td>
<td>Hard sheath 2.0 x 5.3 (mm)</td>
</tr>
<tr>
<td>Cicada resistance</td>
<td>×</td>
<td>○</td>
</tr>
<tr>
<td>Sheath hardness¹</td>
<td>1</td>
<td>1.2</td>
</tr>
<tr>
<td>Sheath thickness²</td>
<td>Not specified</td>
<td>About 0.4 mm</td>
</tr>
</tbody>
</table>

*¹: Relative value ²: Thinnest part of sheath surface and core fiber