Kyoei has developed a Cosine Curve Hanger (CCH), using the manufacturing technology of preformed wire rods, to bundle overhead optical cable lines for Fiber To The Home (FTTH) with Nippon Telegraph and Telephone East (NTT-East) and West (NTT-West) Corporation. (Patent has been applied for over 16 items of CCH.)

The structure of CCH has a unique design, S-twist curl and Z-twist curl being formed alternately and continuously by polyethylene-coated steel wire of 50 m length.

So CCH has many merits in comparison with a conventional hanger.

Kyoei has been awarded the certified partnership by NTT-East and NTT-West in September 2007, and it has been decided to apply CCH all over Japan from November 2008.

A significant increase is expected in the demand for CCH all over Japan in the near future.

Features
- As CCH has 50 m length with no connection point, a big improvement in the execution speed can be expected in comparison with a conventional hanger (1.5 m length with intermediate connection).
- With S-twist curl and Z-twist curl structure, CCH can not only be put on and taken off from side direction but can also be easily constructed as avoiding many pulling-down and branch. As a result, CCH can increase the efficiency of installation and maintenance work.
- The optical cables can be easily inserted into CCH from side direction along the aerial wiring path, even in case of the cables that are installed in an already congested span.
- During the relocation of optical cables, CCH can be easily transferred to other cable lines. So CCH is used not only to increase the efficiency of installation, but also to ensure the effective utilization of the material.

For specification and the installation example
Please see Table and Fig1 ~ Fig2.

### New Products

**Cosine Curve Hanger**

(CCH)

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**Table. Specification of CCH.**

<table>
<thead>
<tr>
<th>Items</th>
<th>External diameter (mm)</th>
<th>Internal diameter (mm)</th>
<th>Pitch (mm)</th>
<th>Package unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cosine Curve-75</td>
<td>85</td>
<td>75</td>
<td>530</td>
<td>50 m/bundle ×3 bundles</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Items</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Thickness (mm)</th>
<th>Package unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cosine Curve Connector</td>
<td>98</td>
<td>14</td>
<td>13</td>
<td>100 pieces</td>
</tr>
</tbody>
</table>

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For specification and the installation example
Please see Table and Fig1 ~ Fig2.

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**[Information]**
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