

## ● Topics

The optical cable (of a conventional structure for indoor use) shown in Fig. 1 has been laid in a wall-mounted cable cover by a common method for indoor wiring. To reduce the cost and operation time, we have developed a flat-type indoor optical cable that can be directly laid on a wall without a wall-mounted cable cover.

The new cable is shown in Figure 2. To protect the optical element part from an impact, this new cable has flanges on both sides of the optical element part. In addition, this cable can be easily laid on a wall in a straight line because this cable has the straightened steel wires in the flanges. As shown in Figure 3, by stacking small pins into the grooves on the flanges, this cable can be easily fixed to the wall directly.

By using an ITU-T G.657 A2-compliant bend insensitive single mode fiber (FutureGuide®-BIS-B), this cable allows bending with a small radius.

The cable is jacketed with newly developed white flame-retardant polyolefin for open-wiring on a wall, offering high-reliability UV protection and aesthetics.

Cost reduction and the simplification of indoor wiring work is expected by the use of the flat-type optical indoor cable.

### Flat-Type Indoor Optical Cable

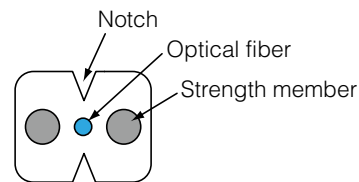


Fig. 1. Cross-sectional view of conventional indoor optical cable.

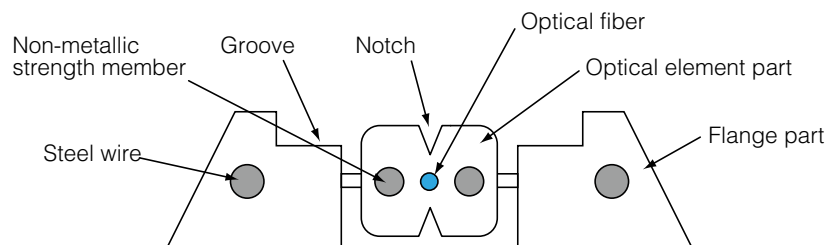


Fig. 2. Cross-section view of Flat type optical indoor cable.

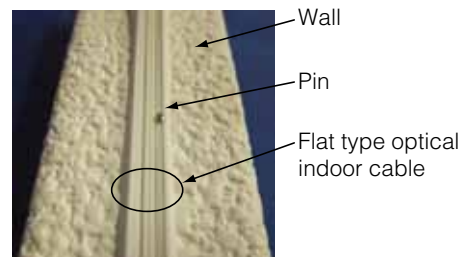


Fig. 3. Cable fixing method with small pins.

#### [Information]

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