Extremely high-density optical fiber cable

Extremely Small-Diameter and Lightweight Optical Fiber Cable for Reducing Facility Construction Costs

Our optical cable development target is smaller diameter and lighter weight to enable facility construction cost reduction and effective utilization. In our latest research, we have developed the world’s highest-density optical cable by successfully achieving extremely small diameter and light weight for it.

Features
- Application of bending loss insensitive fiber to increase fiber density of optical fiber cable
  - We successfully developed a high-density optical fiber cable in a non slotted rod structure while retaining stable transmission characteristics
- Newly developed novel fiber ribbon
  - We successfully developed rollable optical fiber ribbon that suppresses large fiber strain and ensures mass splicing workability the same as that of conventional optical fiber ribbons

Application Scenarios
- Application for aerial section
  Making use of lighter weight cable to improve installation workability
- Application for lifting section
  Making use of smaller diameter cable to effectively utilize of lifting conduit space

NTT Group Global Advantage
This cable’s extremely small diameter enabled us to achieve the world’s highest-density optical fiber cable. The cable makes it possible to construct infrastructure facilities more effectively.