

Demonstration of telepathology by Hi-vision movie

Network route of optical fiber used for research



Optical fiber network (11.3km) which connect Tohoku university hospital – old Sendai city hospital (Itsutsubashi) – Sendai international center (Existing optical fiber : 8.4km, New optical fiber : 2.9 km)

Actual exhibition of optical fiber cables attached to electricity distribution lines which inhibit snowfall



② 東北電力株式会社 昭和61年8月



(Self-suspended inhibiting snow fall optical fiber cable developed in Tohoku Electric Power Corp.)

● Prehunged type

Hanging wire and cable are unified with polyethylene hanger, which can prevent lateral growth of snow wall and influences of stress to the hanging wire by using slack of the cable.

● Spindle shaped

Hanging wire and cable are unified with polyethylene sheath, which has flat surface.

● Self-suspended spiral (SSS) type with wave-shaped steel pipe.

Cable with wave-shaped steel pipe is wrapped around hanging wire.

● Dual lashing type (SSF type)

Hanging wire and cable are unified with bind wire.

● Nonmetallic prehunged type

FRP hanging wire and cable are connected with polymer, which don't use metal.

This research was published by New media Ltd. (1994) as "Sendai telepathology research : Proposal of Hi-vision telepathology using optical fiber"