

[ABSTRACT]

At least one conductor is disposed in sealed vessel 10, which is filled with insulating gas, an hand hole 11 is provided to a part of sealed vessel 10 and is closed by a sealed cover 12, and optical fibers 14 are disposed that form a closed loop surrounding conductor 13 in sealed vessel 10. Optical fibers 14 are hermetically led out of sealed vessel 10 from sealed cover 12 and are provided with at least a light source unit and an optical signal processor unit at the lead-out end. An airtight hollow tube 30 disposed looping around leaving a predefined distance of separation is provided to conductor 13 in sealed vessel 10, the end of tube 30 is hermetically connected to sealed cover 12 by sealing/bonding means 31, and optical fibers 14 can be inserted in sealing/bonding means 31.

[Representative Drawing] Fig. 1.