

Tests performed indicate that the SOP will protect the circuit. Because the SOP limits the current to 200 mA, it prevents both the –35 V and the –70 V power supply voltages from being forced negatively. Figure 2.10-6 shows the new circuit configuration.

A field trial, where one of the two circuits was protected by a GDT and the SOP, has proved the success of the proposed protection. Within a few weeks of the installation, a lightning storm damaged the circuit protected by a GDT whereas the one protected by the combination of a GDT and the SOP continued to operate.

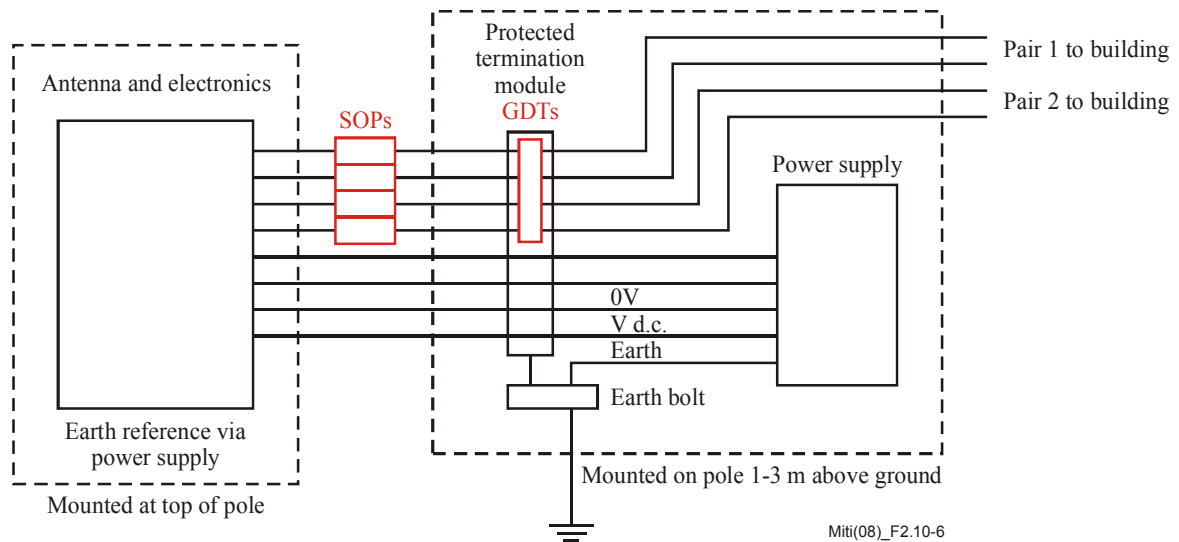


Figure 2.10-6 – GDT and SOP protected system

References

Rec. ITU-T K.30