

Precautions for Installing Lightning Arresters

When another device such as lightning arresters is connected to the coaxial cable, it may give impact to transmission quality.

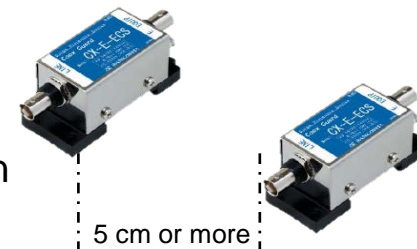
When installing a lightning arrester, observe the following instructions.

- This product, when no lightning arresters are connected, has surge resistance that can protect the coaxial cable from a surge voltage of up to 4 kV.

* Equivalent to Level 4, IEC61000-4-5.

- If a lightning arrester should be added due to ambient environmental reasons, observe the following instructions:

- Lightning arrester tested and verified by Panasonic: SANKOSH CX-E-ECS
- When installing two or more lightning arresters, ensure there is at least 5 cm between them.



- Installing lightning arresters may shorten the allowable cable length because the resistance of the cable in its entirety increases. Measure the loop resistance after installing lightning arresters.

(Reference: RG-6/U, 500 m)

Estimated loop resistance required for stable power supply to the camera side unit: **20 Ω or less** (4 Ω /100 m)

The loop resistance after the installation of lightning arresters must be **17.6 Ω or less**.

(DC resistance of CX-E-ECS: 1.2 Ω max./unit when two units are installed.)

- Lightning arresters may cause signal interference and reduce the transmission bit rates of cameras.
(Reference) PLC PHY layer 240 Mbps (Effective: 80%/150% of the coefficient of variation when the frame rate is specified)

Note that failure to observe those instructions may cause momentary pauses in the stream of images, loss of images, or other problems related to video images.