1. A maximum cable length of 500 meters or 1,640 feet is allowed to connect any single US device to the associated apparatus. The total allowable cable length used to connect all of the US devices to the associated apparatus is 1,500 meters or 4,921 feet.

2. Each cable (or wiring) used to connect US devices to the cable must not exceed a capacity of 328 μA/meter or 100 μA/foot.

3. The total cumulative capacity of the cables used to connect the internally safe devices to the associated apparatus must not exceed 856 μA/meter or 270 μA/foot.

4. Each cable must not exceed an insulator of 0.656 μA/meter or 0.2 μA/foot.

5. The lightning of the cable must not exceed 200 μA/meter.

6. For each TLS-3500 cable installed, the maximum device to be connected to the associated apparatus is 64. A maximum of four TLS-3000 cables can be connected to the TLS-3500 cable where each connected to the channel cables is 10 feet.

7. Non-hazardous associated apparatus is shown and must be connected to the connected cable of central energy. Internal or external, a source of potential with a 10912 to 10912 feet of cable length.

8. Connect the shield ground to the earth ground at the power distribution panel with a 1 sq. mm. (10 AWG) or larger) conductor, ensuring that current complies with EN 60794-1, Clause 4.2.1 of the Internally Safe Circuit.

9. The shield must terminate a field wiring connection inside the non-hazardous junction box.

10. A fire alarm shall not be installed to determine if the installation location is susceptible to ignition or other sources of energy. If necessary, protection against ignition and other electrical damage in accordance with EN 60794-5, Clause 1.4.1.2.2 of the Internally Safe Circuit shall be provided in the case of ignition and other electrical damage of equipment and associated equipment in accordance with EN 60794-1, Clause 4.2.1 of the Internally Safe Circuit.

11. It is the responsibility of the installer to determine compliance of the Internally Safe Apparatus. The Internally Safe Apparatus used in this system must conform to the following requirements:
   a. Constructed of flammable materials, such as plastic, rubber, or similar materials.
   b. Constructed without any sources of stored energy that discharge less than 15V and 250W or sources that contain a hazard of igniting the voltage.
   c. If constructed with metallic wiring, the Internally Safe Apparatus shall be capable of maintaining the terminal voltage to earth in accordance with EN 60794-1, Clause 2.1.2 of the Internally Safe Circuit.
   d. Non-metallic enclosures are required at the voltage level in accordance with EN 60794-1, Section 7.8.1 and EN 60079-26, Clause 435.3.
   e. Based on the available power within the system, only apparatus that is electrically insulated or rated exceeds 10 kw in total surface w/2. The same apparatus shall be in accordance with EN 60079-11, Clause 1.4.1.2.2 of the Internally Safe Circuit.
   f. The Internally Safe Apparatus shall not contain any means of increasing the available voltage or current, for example, do not do connectors.

12. Cable shall not be a single bus designer in accordance with EN 60794-26.

13. The IECEE shall be a single bus designer in accordance with EN 60794-5.

14. TLS-3000 cables must be installed in an indoor, non-hazardous area in accordance with the descriptive system document and the installation instructions. The cable TLS-3000 cable shall be connected to the Internally Safe Apparatus as described in the electrical system. The cable shall be connected to the Internally Safe Apparatus and shall not be connected to the associated apparatus.

15. The TLS-3000 cable shall be connected to the Internally Safe Apparatus by means of a terminal block and shall not be connected to the associated apparatus.

16. Reference the device connection for applicable standard buildings.