

Diagram 2b shows how to identify the fiber positions in the MT connector used in the OptiTips. Later sections outline how to define active fibers and the fiber location for each fiber count OptiTip / Terminal.

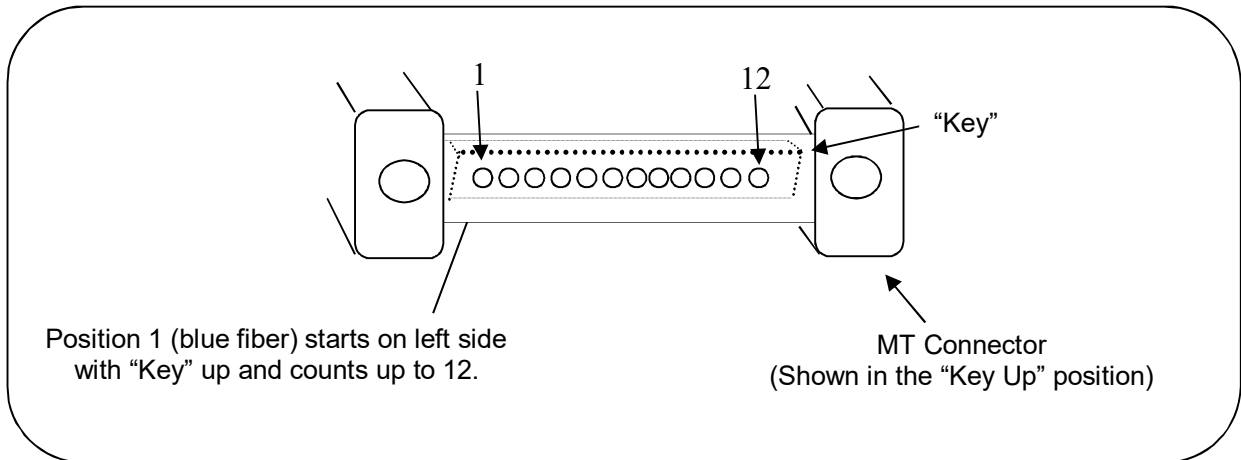


Diagram – 2b

Diagram 2c below shows the orientation of the MT connector inside the Tether (pinned) and Terminal (pinless). Alignment pins are located in the MT connector installed on the Tether.

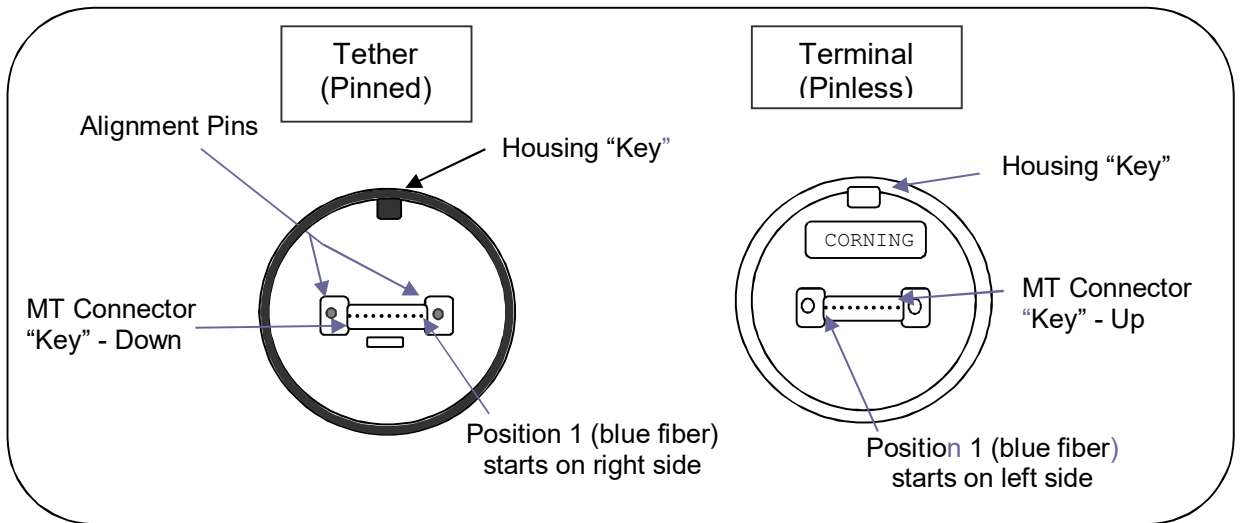


Diagram – 2c

Active Fiber Positions and Color Codes for OptiTip Connectors

All OptiTip systems are designed with 1:1 or straight through polarity. OptiTip connectors follow a “Center Out” fiber position schematic. The fiber positions for standard OptiTip connectors can be seen in Table 1 below. Standard OptiTip connectors can be found in Distribution Trunks, Direct Trunks, Direct Harnesses, and Terminals.

| Position | Fiber Count | | | | |
|----------|-------------|--------|--------|--------|--------|
| | 2 | 4 | 6 | 8 | 12 |
| 1 | No Fiber | | | | Active |
| 2 | | | | | Active |
| 3 | | | | | Active |
| 4 | | | | | Active |
| 5 | | | | | Active |
| 6 | Active | Active | Active | Active | Active |
| 7 | Active | Active | Active | Active | Active |
| 8 | No Fiber | | | | Active |
| 9 | | | | | Active |
| 10 | | | | | Active |
| 11 | | | | | Active |
| 12 | | | | | Active |

Table 1 – Standard OptiTip Polarity

Façade Flexnap solutions offer a non-standard fiber position schematic to properly mate up with indoor MT cable assemblies. The fiber position for the OptiTip connector on Façade Flexnap Trunks can be found in Table 2 below.

| Position | Fiber Count | | |
|----------|-------------|--------|--------|
| | 4 | 8 | 12 |
| 1 | Active | Active | Active |
| 2 | Active | Active | Active |
| 3 | Active | Active | Active |
| 4 | Active | Active | Active |
| 5 | No Fiber | | Active |
| 6 | | | Active |
| 7 | | | Active |
| 8 | | | Active |
| 9 | | | Active |
| 10 | No Fiber | | Active |
| 11 | | | Active |
| 12 | | | Active |

Table 2 – Façade Flexnap Polarity

OptiTip and Terminal Cabled Fibers

This section outlines how each cable is “wired” for each fiber count. OptiTip and Terminal stub cables less than twenty (20) feet contain all 12 fibers in the standard color code configuration. Terminal stub cables and OptiTip cables twenty (20) feet or greater in length have the exact number of fibers in the standard color code configuration. The OptiTip connector always has 12 fibers inserted in the connector. The fibers that are actually used to transmit the signal (active fibers) depend on OptiTip / Terminal stub fiber count; see tables below. The position of the fibers within the MT connector is detailed in the section above. For more information, see the fiber schematics in Appendix A.