

6.3.3 Cable Placement

Fiber optic cables shall be installed in continuous lengths without intermediate splices throughout the project, except at the location(s) specified on the construction plans. The cable installation personnel shall be familiar with the cable manufacturer's recommended procedures including but not limited to the following :

- Proper attachment to the cable strength elements for pulling during installation.
- Cable tensile limitations and the tension monitoring procedure.
- Cable bending radius limitations.

Equipment Requirements :

- Standard plowing equipment may be used. However, modifications may be required to conform to the cable manufacturer's specifications.
- The equipment shall be large enough to perform the task.
- A Dynamometer shall be used for measuring cable tension.
- The cable feed system shall comprise of a reel carrier, rollers or guide tubes, and a cable chute which must allow the cable to be placed while following the manufacturer's product specifications for tension and minimum bend radius. The cable chute shall have a removable gate to allow the cable to be inserted or removed at intermediate points.
- The reel carrier shall accommodate one or more reels of adequate size and shall ensure easy and safe loading and unloading.
- When required the cable shall be buried at least one (1) meter deep or in accordance with local zoning regulations.

At locations to be designated, selected lengths of fiber optic cable shall be coiled and secured with tie raps to racking hardware. The minimum bending radius of the fiber optic cable shall not be compromised when preparing this stored cable slack. Slack is required in case of emergency splicing needs.

When power equipment is used to install the fiber optic cables, low speeds shall be used, not to exceed 30 meters per minute. The tensile and bending limitation for fiber optic cables shall not be exceeded under any circumstances.



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