

# Spacing between ADSS optical cable and conductor

The cable storage bracket insures the proper bend radius for the stored fiber optic cable and provides for horizontal storage and tiering of multiple cables and loops.

ADSS cable should be considered whenever aerial span spacing is dictated by the geography of the surrounding terrain and is larger than would be normally used by aerial plant.

The ADSS cable is suspended in the electrical field due to the phase conductors; this varies from a maximum at mid-span to zero at the grounded metal supports of the cable.

Like other fiber optic cables, ADSS cable weighs less than equivalent copper cables and will tend to sag less over a given aerial span. Because of this, it should occupy the uppermost available ...

The ADSS cable reel (pay-off) must be located directly in line with the first traveler and must be back from the structure four times the height of the traveler (4:1 distance to height ratio).

As its name indicates, there is no support or messenger wire required, so installation is achieved in a single pass, making ADSS an economical and simple means of building a fiber optic network.

The primary difference between ADSS and conventional OPGW or dielectric cables is the need for electrical clearance due to electrostatic fields. For 69 kV lines, maintain a minimum clearance of 0.9 ...

During the paying-off process, the optical fibers in ADSS easily suffer from affection and damage due to the twist of ADSS, therefore preventive actions should be taken to ensure the ADSS ...

## 5. Optical Fiber Cable Characteristics 5.1 The Mechanical and Environmental Performance of the Cable ... 5.2 Installation Conditions

Although the design calculations are complex, for short spans (less than 100m), the sag is typically taken as 0.5m; for spans between 100m and 120m, the sag is taken as 0.7m. The lowest ...

ADSS cable plants require careful designs to ensure the route is accessible by veronnel and/or vehicles for pulling cable and splicing. In particular notes the locations of poles so proper span ...

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