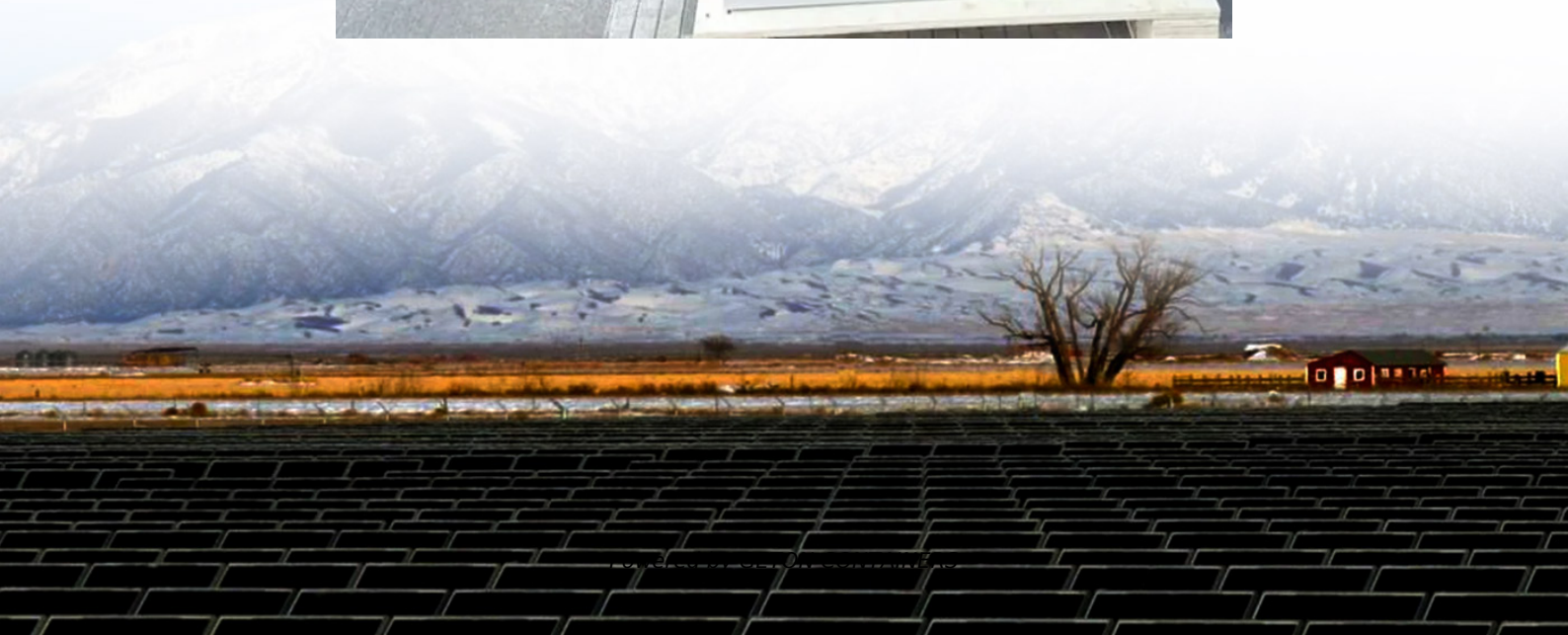


Outdoor power attenuation rate





Overview

What is the average rain attenuation?

The outdoor night-time rain attenuation measurements (30 mm/h, 22°–24 °c) have been compared with day-time measures in intense rainy weather (average rain rate 125 mm/h, 31°–32° c).

What is attenuation rate 8.69?

Attenuation rate $\cong 8.69 \alpha$ is the loss in dB, per unit length. The utility of the attenuation rate concept is that it allows us to quickly calculate loss for any distance of wave travel: This loss is simply attenuation rate (dB/m) times length (m), which yields loss in dB. A particular coaxial cable has an attenuation constant $\alpha \cong 8.5 \times 10^{-3} \text{ m}^{-1}$.

What is the attenuation rate in 100 m?

The attenuation rate is The loss in 100 m of this cable is Note that it would be entirely appropriate, and equivalent, to state that the attenuation rate for this cable is 7.4 dB/ (100 m). The concept of attenuation rate is used in precisely the same way to relate ratios of spatial power densities for unguided waves.

How does attenuation rate work?

The concept of attenuation rate is used in precisely the same way to relate ratios of spatial power densities for unguided waves. This works because spatial power density has SI base units of W/m^2 , so the common units of m^2 in the numerator and denominator cancel in the power density ratio, leaving a simple power ratio.



Outdoor power attenuation rate



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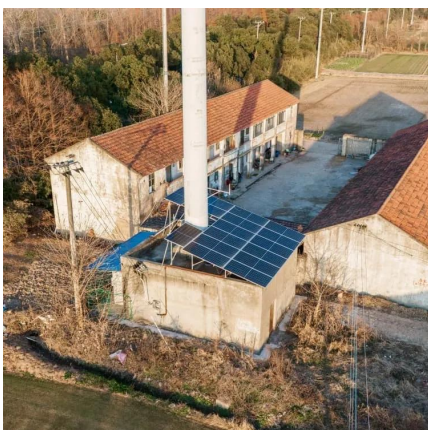
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Since the rate of attenuation of signal power directly determines the communication range, it is beneficial for the developer to remain in the "free space" zone.

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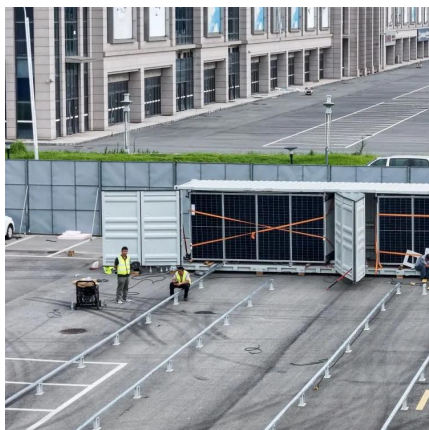
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3.9: Attenuation Rate

Example 3 9 1: Attenuation rate in a long cable A particular coaxial cable has an attenuation constant $\alpha = 8.5 \times 10^{-3} \text{ m}^{-1}$. What is the attenuation rate and the loss in dB for 100 m of this cable?

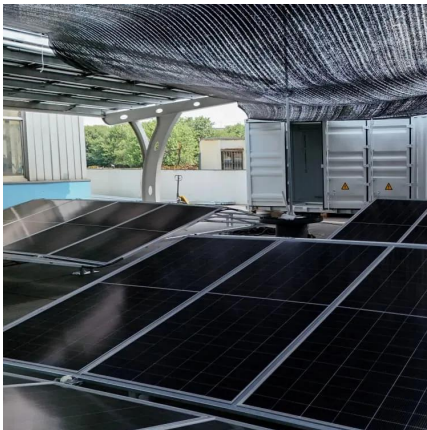
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