

# Cisco AIR-CAB030LL-R Datasheet



Cisco AIR-CAB030LL-R 30-ft low-loss cable, one RP-TNC plug, one RP TNC jack

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You must place the antennas in a wireless network installation close to the users. The location of the antennas do not need to be close to the connected switch or to a computer room. The cable run can be 100 feet or more from the AP or bridge to the antenna locations.

A coaxial cable carries radio frequency (RF) energy between the antennas and the radio equipment. An antenna cable introduces signal loss in the antenna system for both the transmitter and receiver. In order to reduce signal loss, minimize the cable length and use only low-loss (LL) or ultra low-loss (ULL) antenna cable in order to connect radio devices to antennas.

RF coaxial cable = loss of signal strength

Loss of signal strength is directly proportionate to the length of the cable segment. As the diameter of the cable increases, signal loss decreases, but at a much higher purchase cost. As signal frequency increases (a higher-numbered channel), loss increases.

LL cable extends the length between any Aironet product and its antenna. With a loss of 6.7 decibels (dB) per 100 feet (30 meters [m]) for LL cable and 4.4 dB for the ULL cable, these cables provide installation flexibility without a significant sacrifice in range or performance.

## Specifications

- Manufacturer: Cisco
- Part Number: AIR-CAB030LL-R
- Network Cable Type: Antenna cable
- Connectivity Left Connector Type: RP-TNC
- Connectivity Right Connector Type: RP-TNC
- Right Connector Gender: Female
- Left Connector Gender: Male
- Left Connector Qty: 1
- Right Connector Qty: 1
- Length: 30 ft

## Compatibility

Cisco Aironet 1200, Cisco Aironet 1220, Cisco Aironet 1230, Cisco Aironet 1230AG, Cisco Aironet 1231, Cisco Aironet 1231G, Cisco Aironet 1232AG, Cisco Aironet 1242AG, Cisco Aironet 1242G, Cisco Aironet 1250 Modular Unified Access Point Platform, Cisco Aironet 1252AG, Cisco Aironet 1252AG Standalone Access Point, Cisco Aironet 1252AG Unified Access Point, Cisco Aironet 1252G, Cisco Aironet 1252G Unified Access Point, Cisco Aironet 1260 Series Access Point (Controller-based), Cisco Aironet 1310 Outdoor Access Point/Bridge

When you install antenna cables, be aware of these:

- If you pull the coaxial cable too hard, its loss properties increase. You must treat coax with care.
- Curves in coax must not exceed the specified bend radius of the manufacturer.
- The longer the cable segment is, the higher the signal loss is over the full length of the cable. You can find the actual loss per foot in the specifications of the manufacturer for that cable.
- If any copper wire passes from outside to inside a building, use lightning protection. Most countries require the use of lightning protection in this cases. Check the local building regulations.
- For outdoor-mounted antennas, seal with a good material like Coax-Seal [leavingcisco.com](http://leavingcisco.com).
- Cisco has an Outdoor Bridge Range Calculation Utility to help you calculate power budgets.

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