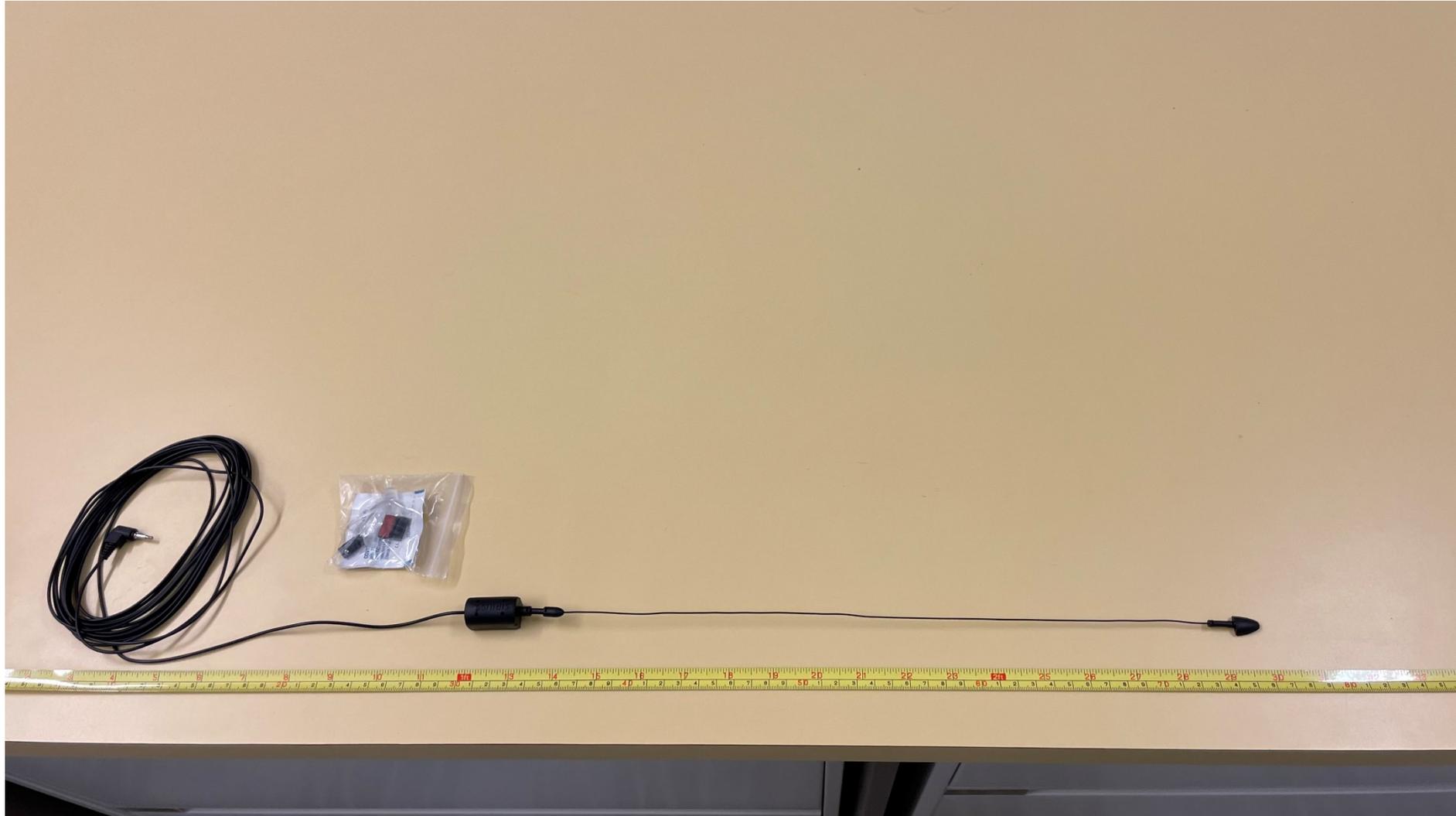


## FM Extender Antenna (FEA25A) Operation Description

The car AM/FM radio is tuned to an empty frequency. The satellite radio's FM transmitter is adjusted to the same frequency. The FM Extender Antenna FEA25A is mounted on window glass closest and parallel to the car's AM/FM antenna to get the best coupling. When the satellite radio is ON, the FEA25A couples to the FM signal coming out from the satellite radio, to the AM/FM antenna and audio is demodulated on the car AM/FM radio. The FEA25A is comprised of shielded cable with a 2.5mm plug on one end to connect to the satellite radio and at the other end the coax is wrapped three times through a ferrite bead to create a 'loading' coil for 'electrically' short antenna. The center conductor is exposed for 16 inches to form a radiating element.

# FM Extender Antenna Description



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