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What is the speed of the Falcon 9 launch of 23 satellites as the travel in space?

15 web pages

The speed of the Falcon 9 rocket when launching 23 Starlink satellites into spa particularly once it reaches orbit, can be described as follows:

- **During Ascent**: The Falcon 9 first stage accelerates the rocket to around 8,000 km/h (approximately 5,000 mph) before stage separation.
- **In Orbit**: Once the second stage has placed the satellites into low Earth or (LEO), the satellites orbit at speeds around 27,000 km/h (approximately 17,000 mph). This speed is necessary for maintaining a stable orbit at the altitude where Starlink satellites are typically deployed.

For a specific mission involving 23 Starlink satellites, the satellites are deploye into an initial orbit with a perigee (lowest point) of approximately 210 kilometer above Earth, where they would then reach controlled flight at orbital speeds. T speed is consistent with the general orbital velocity required for LEO operation

orbital mechanics Starlink constellation

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