

# Hitching a ride

ABB's Ty-Rap™ cable ties make it to Mars on NASA Perseverance Rover Mission

ABB's Ty-Rap™ cable ties are keeping wires in the latest Mars rover organized and safely secured, equipped with Ty-Rap cable ties made of a sophisticated fluoropolymer.

DID YOU KNOW?

## Ty-Rap cable ties

are in continued use on the still active NASA Curiosity rover and were previously used on the twin Spirit and Opportunity rovers



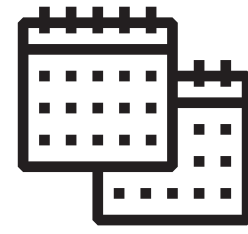
## 20+ year lifespan

Ty-Rap cable ties used on the rover are radiation, temperature and weather resistant



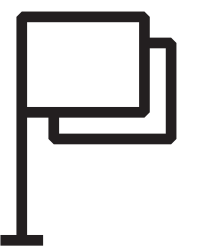
## 30 billion

Ty-raps have been produced since 1985. If layed end-to-end they would make it to the moon and back a dozen times



## ~687 earth days

Mars Perseverance rover mission will last at least one Mars year returning samples of Mars to Earth



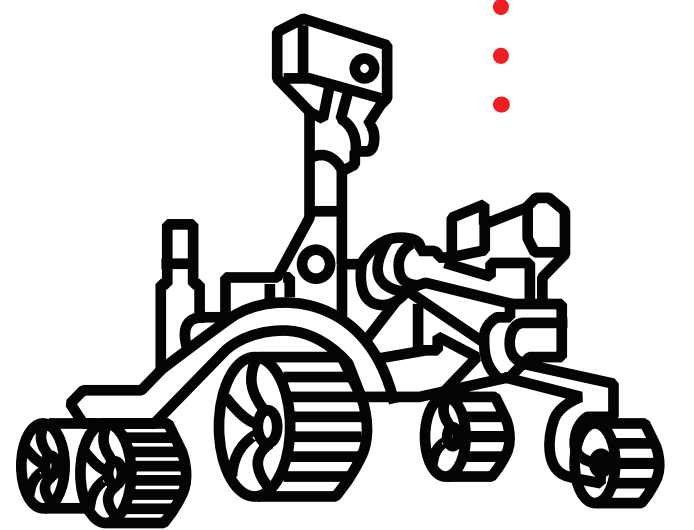
**02.18.2021**

NASA's 2020 Perseverance rover landed on Mars!



Radiation on Mars is **2.5x higher** than on the International Space Station

Average temperature **average -80°F**  
**-195°F to 70°F** temperature range



NASA's largest, most advanced rover journeyed

**293 million** miles on its **203-day** journey



**07.30.2020**

Launched from Cape Canaveral Space Force Station in Florida