

Temperature Sensing Cable Specifications:

Power Input:	shall be able to accept DC voltage with an input of no more than 12 volts
Power Consumption:	operational duration no less than 8 hours on a battery
Cable Weight Including Sensors:	not to exceed 6 pounds
Cable Breaking Strength:	no less than 60 pounds
Operational Temperature Range:	0°F to 120°F
Temperature Measurement Accuracy:	0.5° F
Acquisition Rate:	All sensors sampled in no more than one minute
Cable Length:	500 feet
Number Sensors on Cable:	50
Distance Between Sensors:	10 feet
Cables:	Shall include 2 (a primary and a spare)

Also included shall be acquisition hardware and software such that the temperature profiles can be monitored in near real time, and the data stored as a function of time on a PC for post flight analysis.