

Item/Function	Potential Failure Mode	Potential Effect(s) of Failure	S E V	Potential Cause(s) of Failure	O C C	Current Design Controls (Prevention)	Current Design Controls (Detection)	D E T	R P N	Recommended Actions
Brake Cable: Provides adjustable and calibrated movement between the brake lever and brake caliper, under specified conditions of use and operating environment.	Cable breaks	Operator is unable to close brake calipers, wheel does not slow down, possibly resulting in accident.	10	1. Corrosion of cable wiring due to wrong material selected	5	Cable material selection based on ANSI Standard #ABC.	Cable strength test #456	4	200	What priority?
				2. Fatigue cracks in cable wiring due to inadequate cable thickness	2	Finite Element Analysis of all new cable material	Laboratory analysis for fatigue cracks at regular intervals per test regimen #456	2	40	What priority?
	Cable binds	Increased friction between cable and sheath, resulting in operator having to use greater effort to close brake calipers.	7	3. Bend or kink in cable due to mis-routing	3		Design Review at prototype build	2	42	What priority?
				4. Inadequate or wrong lubrication between cable and sheath	5	Cable lubrication selection based on ANSI Standard #XYZ.	Bicycle durability test #123	4	140	What priority?

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