

Antenna Specification Document

The antenna tube is made of 201 stainless steel, the base and antenna cap are zinc alloy, while the 1.92mm solid core rod and spring leaf are made of iron material.

(The surface of the antenna is electroplated)

Qualified		Rejected	
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Telescopic Antenna Specifications

Item Number	Inspection Items	Requirements	Criteria
1	Size	The dimensional requirements of the TL-type antenna shall comply with the customer-provided drawings.	AQL=0.65
2	Appearance	The surface shall be free from visible defects including scratches, tool marks, dents, cracks, peeling, substrate	AQL=2.5

		exposure, or corrosion.	
3	Curvature	The antenna should be fully deployed in a horizontal state, and the downward curvature of the antenna should be less than or equal to 3% per meter	AQL=0.65
4	Antenna feel	The antenna should have a comfortable feel, suitable elasticity, and no obvious abnormal sounds such as jamming	AQL=2.5
5	Retraction/ Extension Force	The maximum deployment/retraction force between antenna sections shall not exceed 12N, with a minimum required force of no less than 2N. Section skipping phenomena is permissible during the deployment/retraction process.	AQL=1
6	Contact Resistance	DC contact resistance less than 0.5 Ω	AQL=1
7	Axial Force	The axial bearing force of the fully deployed antenna should be greater than 48N	AQL=0.65
8	Assemble	The riveting of the antenna tube to the base and top cap should not be loose	AQL=0.65
9	Frequency	450-860 MHz, 300 mm length, 75 (Ω)	AQL=0.65
10	Gain	2db	AQL=0.65

