



## Quality Comparison between Golten's Products and Low-end Competitors' Products

Comparison Projects	Golten	Low-end Competitors
<b>Plastic Materials</b>	1. the same brand and item as Phoenix/WAGO: PA66 (BASF, Celanese, DOW); PBT (POLY); LCP (POLY), PA9T (KURARAY); PA46 (DSM) 2. flame retardant rating: UL94V-0	1. domestic materials and recycled materials 2. most of them cannot be up to UL94V-0, but UL94V-2
<b>Contact Materials and Plating Technology</b>	1. pure copper/ high-precision phosphor copper/ H65 copper 2. plating nickel base + green tin (more than 4 $\mu\text{m}$ ); plating nickel base + high-temp green tin to ensure welding reliability, clamping force, and stable temperature rising	1. brass, plating copper-tin, poor solderability, only suitable for manual welding 2. common phosphor, copper, tin with subpar content, plating nickel only
<b>Stainless Steel Shrapnel</b>	1. high-precision stainless steel SUS304 2. quenching technology to relieve processing stress	1. common SUS204 2. without quenching
<b>Screw</b>	1. superior carbon steel C1018/C1022, environmentally-friendly galvanization, heat treatment process, chromic passivation of chromic zinc, salt spray to ensure screws non-corroding in 48H 2. high-quality stainless steel or copper screws are also available to achieve salt spray in 72H and 96H	common carbon steel, without quenching, low hardness, screws easy to slip and break, non-environmentally-friendly blue and white zinc, salt spray test in about 8H
<b>Temperature Rising</b>	<45K(IEC) <30K(UL)	>45K(IEC) >30K(UL)
<b>Torsion</b>	larger torsion with stable quality	less torsion and easy to break and loose
<b>Quality Control</b>	1. strict quality control flow of inspection; 100% full inspection before packing 2. the bulk has 100% same quality as the samples do	1. sampling inspection 2. the bulk's quality is different from the samples'