



## Characteristics and Comparisons of Other Conductors

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Characteristic	Bare Copper (CU)	Tin Plated Copper (TC)	Silver Plated Copper (SC)	Nickel Plated Copper (NC)
<b>Life Stability</b>	EXCELLENT- Slight loss of conductivity with heat aging	Conductivity and solderability deteriorates with heat aging at rated temperature due to migration of tin and copper and tin oxidation	EXCELLENT- no loss of conductivity with heat aging at rated temperature. Solderability shelf life remains good	Conductivity remains stable with heat aging at rated temperature
<b>Crimp Terminability</b>	EXCELLENT- Contact resistance may vary with type of terminal	GOOD- But contact resistance increases with time and can be variable	EXCELLENT- Contact resistance remains low	GOOD- But contact resistance may vary with time. Use plated steel terminal in some cases.
<b>Solder</b>	GOOD- When Clean	GOOD- originally Deteriorates with shelf life	EXCELLENT	Requires active flux
<b>Service Temperature</b>	210°F (99°C)	300°F (149°C)	390°F (199°C)	480°F (249°C)

### ORDER CODE DESIGNATION

- TC= Tin Plated Copper
- CU= Bare Copper
- SC= Silver Plated Copper
- NC= Nickel Plated Copper