

Conductor Attributes - Mobile Phone Project

CONDUCTOR	RESISTIVITY in ohm cm	Adherence to SiO2	Cost 99.99%	ADVANTAGES	DISADVANTAGES
Aluminum	2.65x10-6	Excellent	\$.06/gm	Good Conductor Easy to coat Very Inexpensive	Will corrode/oxidize
Copper	1.67x10-6	Fair	\$.74/gm	Excellent conductor Easy to coat Inexpensive	Will oxidize
Gold	2.44x10-6	Poor	\$17.00/gm	Good Conductor Noble metal - will not corrode Easy to coat	Requires chrome sub layer Most Expensive
Nickel	6.84x10-6	Good	\$1.20/gm	Inexpensive	Fair Conductor
Chrome	129x10-6	Excellent	\$.89/gm	Poor conductor Inexpensive	Fair Conductor
Silver	1.63x10-6	Poor	\$3.67/gm	Excellent conductor Easy to coat	Requires chrome sub layer Will oxidize Expensive