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I. Introduction

Standard connectors for consumer electronics (CE) continue to be in demand. Even more in demand is the continued CE trend for smaller, thinner, and faster devices with longer battery life. Mobile devices like smartphones, laptops, and iPads need to be recharged and the method used for accomplishing this task has not changed. Standard connectors use metal-to-metal contacts that degrade signal and power quality over time. Over the life of the connector there will be multiple durability cycles, delamination, fretting Sigrrositm Camdinder Recadilidgup on the contacts. As a result, contact resistance increases over the life of the connector which negatively impacts performance and efficiency [1] –[3]. These problems have even been the root cause of device failure in many cases. Tremendous resources are spent in an effort to try and mitigate these performance issues, but they are unavoidable and exist due to exposed metallic contacts that are open to the environment

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