

ABSTRACT

A keyed power source connector (32) and keyed
5 device connector (14) that are backwards compatible,
ensuring that the power rated device connectors can
only mate with power source connectors power rated at
or above the device connector power rating. One
connector is formed as a plug, and the other connector
10 is formed as a socket. The connectors have peripheral
contoured body portions (16, 34) having a profile
being a function of the respective connector power
rating. A keyed portion (41, 62, 72, 82) of the power
source connector plug will physically interfere with
15 and not be receivable within a device connector socket
when the device connector power rating exceeds the
power source connector power rating. This connector
system (10) ensures target portable electronic devices
coupled to the device connector can not draw power
20 exceeding the rating of the power source connector.