

Case Study

The HSD to USB adapter is an Amphenol RF robust sealed solution with an IP-67 rating. It was designed specifically as a rugged interconnect with the ability to withstand harsh environments. This product was initially used by a large manufacturer of farm and construction equipment in the cabin of their loader vehicles.

This adapter may be used in vehicles as a data and power signal relay between USB devices and their on-board dashboards/computers. The USB was initially developed to support the infotainment system and has since transitioned into a product which is able to support general system programming.

The HSD to USB adapter port is ideal for applications requiring vehicle controller reprogramming which may also include all types of recreational vehicles. This adapter is an innovative solution to a problem that existed in the industry – a panel mounted HSD-USB relay adapter without jumper cables. Other configurations with different types of interfaces which can be easily mounted in vehicles are available upon request.

Technical Specifications

Electrical	
Impedance	100 Ω NOMINAL
Frequency Range	DC - 1 GHz
Insertion Loss	-1.0 dB Max (DC – 1 GHz)
Skew (Between Signal Contacts)	5 PSEC. Max
Center Contact Resistance	10 m Ω Max
Outer Contact Resistance	7.5 m Ω Max
D.W.V	5.00 VRMS. Min
Amperage Rating	2 AMPS

Mechanical	
Durability	25 cycles min (HSD)
Mating Force	25N max
Unmating Force	10N min (USB)
Housing Retention	110N min. axial
Recommended Retaining Nut Torque	5 IN-LBF

Materials	
Body	Zinc Diecast, Matte Tin Pinning (HSD)
Contact	Copper Alloy, Gold Plating (HSD & USB)

IP-67 Rated



Amphenol RF

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For more information visit www.amphenolrf.com
or call 800.627.7100