

Main Cable Connector J1

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<u>Pin</u> <u>Num</u>	<u>Function</u>	<u>Pin</u> <u>Num</u>	<u>Function</u>
1	Open - Guard	2	Open - Guard
3	+100 VDC Power Feed	4	Open - Guard
5	Open - Guard	6	100V Power Return
7	Open - Guard	8	Open - Guard
9	RS-485 Common Down	10	RS-485 Common Down
11	RS-485_Down_Dir	12	RS-485_Down_Cmp
13	RS-485_Up_Dir	14	RS-485_Up_Cmp
15	RS-485 Common Up	16	RS-485 Common Up

There is Galvanic Isolation between these 3 DK circuit regions:

1. Power Feed/Return, Power Input Filter, 100 V Converter Input
2. Isolated RS-485 Differential Main Cable Bus and its Common
3. DK Board's Signal Ground that services all other DK Board circuits