This drawing shows how to extend the distance on a DV1000. You must use a RS422 signal to extend the 50 ft. limit for RS232. There is a +5 VDC voltage drop issue concerning distance also. You must provide a 5 VDC P.S. at the DV1000 site to power the DV1000 and the FA-ISONET. J7 should be set to RS422 on both units. J4, J5, and J6 should be jumpered on both units. Use the short cables supplied with the FA-ISONETS for connecting the converters to the DV1000 and the PLC. You must use a 24 VDC P.S. at the DV1000 FA-ISONET. The 5 VDC regulator on the FA-ISONET will supply power to the DV1000.

RJ12 on back of DV1000

DV1000

FA-ISONET

RS485 RS422
J7

- +
24VDC

J5

J6 J4

GND +TX -TX -RX +RX +5 VDC

DO NOT APPLY +5 VDC TO THIS TERMINAL!

You must supply 24 VDC to this terminal at the DV1000 Isonet. DO NOT apply 5VDC to the +5 terminal on the Isonet.

Shield / Drain

Belden 9729 Or Equivalent

DL250 CPU

F1-130
D2-230
D2-240 (Both Ports)
D2-250 (Top Port)
D3-350 (Top Port)
D4-450 (Port 2 RJ12)
DL405 (15 Pin Port 0)
Use D4-1000CBL to connect DL405 Port 0 to F2-UNICON

+5 VDC +RX -RX -TX +TX GND

J4 J6

J5

FA-ISONET

The PLC port supplies +5 VDC to the F2-UNICON on the PLC end.

24VDC

J7
RS485 RS422

+ -