



## Application Note #1411

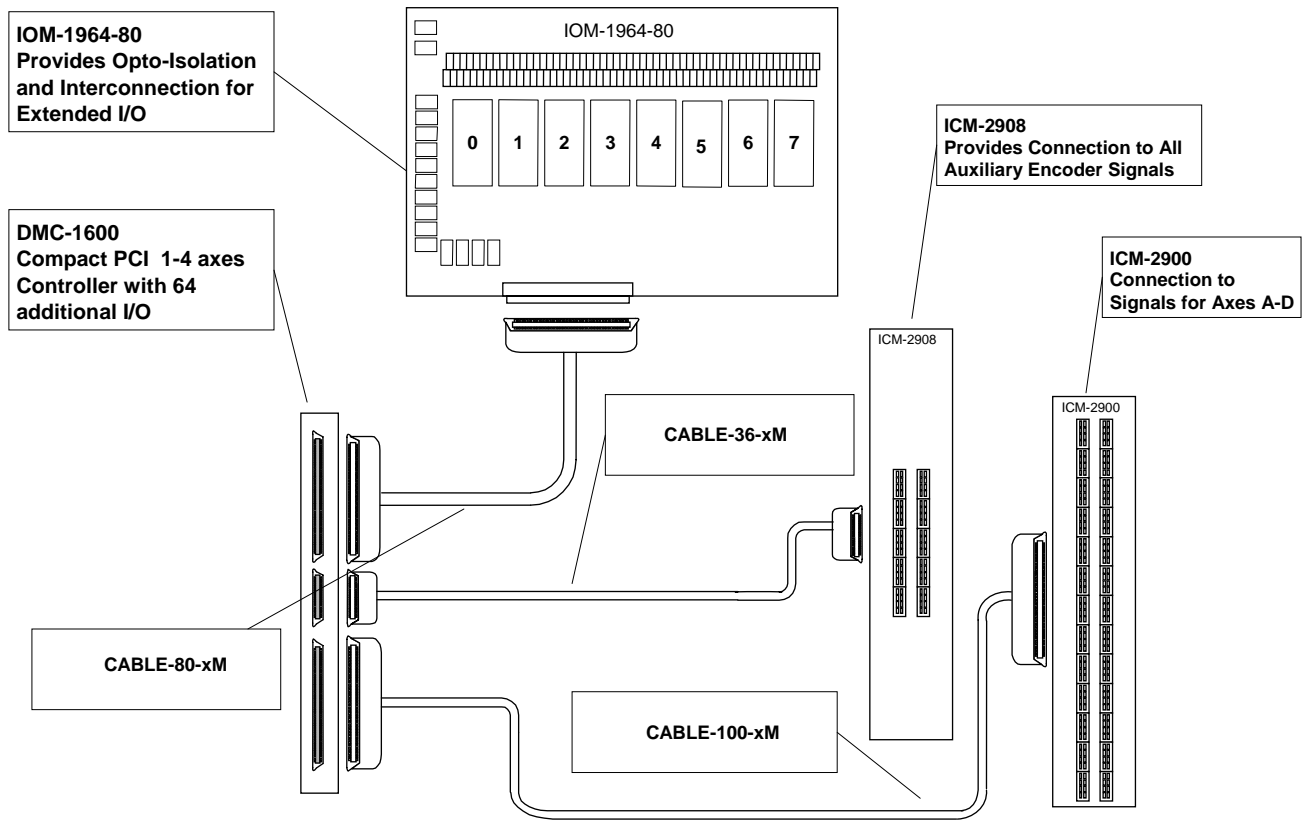
### Cables & Interconnection for DMC-1600

This note describes the recommended cables and interconnection for use with the DMC-1600 controller. Please review the charts below.

#### DMC-1610 to DMC-1640:

NAME	TYPE	PURPOSE
CABLE-100-xM (1 cable required) (xM refers to length)	1 Meter, 2 Meter, or 4 Meter 100 Pin High Density Cable	Connects DMC-1600 to ICM-2900. Provides all signals except Auxiliary Encoder Inputs
ICM-2900-FL (1 Required)	Interconnect Module with Flange Mount	Provides screw terminals for access to all signals from the controller except Auxiliary Encoder Inputs
CABLE-36-xM (1 cable required) (xM refers to length)	1 Meter or 3 Meter 36 Pin High Density Cable	Connects DMC-1600 to ICM-2908. Provides connection for Auxiliary Encoder Inputs
ICM-2908 (1 Required)	Interconnect Module	Provides screw terminals for access to the Auxiliary Encoder Inputs. <b>Note:</b> This module is only required if the Auxiliary Encoder Inputs will be used.
CABLE-80-1M* (1 cable required) (xM refers to length)	1 Meter, 2 Meter, or 4 Meter 80 Pin High Density Cable	Connects the DMC-1600 to an IOM-1964. <b>Note:</b> This cable is only required if the Extended I/O will be used.
IOM-1964*	Opto-Isolation Module for Extended I/O. Connects to CABLE-80	Provides opto-isolation for extended I/O and allows easy access via screw terminals.

\* Rev A and B DMC-16x0 controllers used a 100 pin HD connector for the extended I/O. For these revs a CABLE-100-1M and a IOM-1964-100 is required.



**Figure 1. DMC-1600 Controller with recommended cables for system connection.**

**Note 1:** The ICM-2900 and ICM-2908 interconnect modules are recommended. For other methods of interconnection, such as using the ICM-1900, please contact Galil.

**Note 2:** The IOM-1964-80 opto-isolation unit is recommended for the DMC-1600. This unit provides opto-isolation for the 64 extended I/O signals on the controller. These signals can also be adapted for connection to Grayhill (Model 70GRCM32-HL) and OPTO-22 (model G4PB24) opto-isolation modules using the CB-50-100-1600 adapter board. Please contact Galil for further information, as well as Application Note 5450.