

Control Wire Types

Table 1.G Recommended Control and Signal Wire⁽¹⁾

Wire Type(s)	Description	Minimum Insulation Rating
Belden 8760/9460 (or equiv.)	0.8 mm ² (18 AWG), twisted pair, 100% shield with drain.	300V 60 degrees C (140 degrees F)
Belden 8770 (or equiv.)	0.8 mm ² (18 AWG), 3 conductor, shielded for remote pot only.	

⁽¹⁾ If the wires are short and contained within a cabinet which has no sensitive circuits, the use of shielded wire may not be necessary, but is always recommended.

I/O Terminal Block

Table 1.H I/O Terminal Block Specifications

Maximum Wire Size ⁽¹⁾	Minimum Wire Size ⁽¹⁾	Torque
1.3 mm ² (16 AWG)	0.13 mm ² (26 AWG)	0.5-0.8 N-m (4.4-7 lb.-in.)

⁽¹⁾ Maximum/minimum sizes that the terminal block will accept - these are not recommendations.

Maximum Control Wire Recommendations

Do not exceed control wiring length of 30 meters (100 feet). Control signal cable length is highly dependent on electrical environment and installation practices. To improve noise immunity, the I/O terminal block Common must be connected to ground terminal/protective earth. If using the RS485 (DSI) port, I/O Terminal 16 should also be connected to ground terminal/protective earth.

