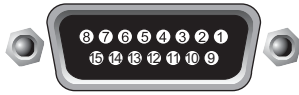
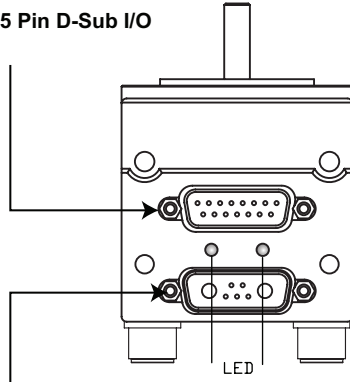


Class 5 Connection Maps

PIN	DESCRIPTION
1	A I/O
2	B I/O
3	C I/O
4	D I/O
5	E I/O
6	F I/O
7	G I/O
8	Encoder A Out
9	Encoder B Out
10	RS232 Transmit
11	RS232 Receive
12	+5V Out
13	Ground
14	Power Ground
15	Power

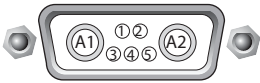


15 Pin D-Sub I/O

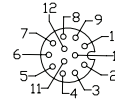


PIN	DESCRIPTION
A1	+20V to +48V DC
A2	Power Ground
1	Sync or I/O
2	+5V Out
3	RS232 Transmit
4	RS232 Receive
5	RS232 Ground

7 Pin Combo D-Sub Power & I/O

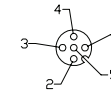


12 Pin Expanded I/O Connector

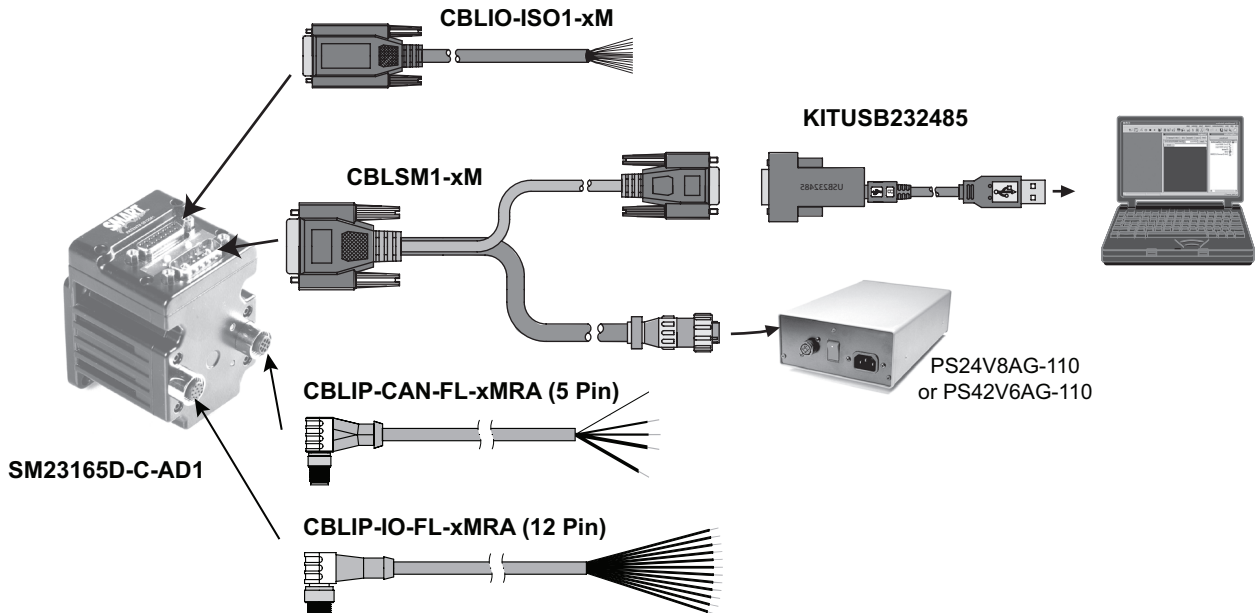


PIN	DESCRIPTION
1	I/O-16 GP
2	I/O-17 GP
3	I/O-18 GP
4	I/O-19 GP
5	I/O-20 GP
6	I/O-21GP
7	I/O-22 GP
8	I/O-23GP
9	I/O-24 GP
10	I/O-25 GP
11	+24 Volts Input
12	GND I/O

5 Pin CAN

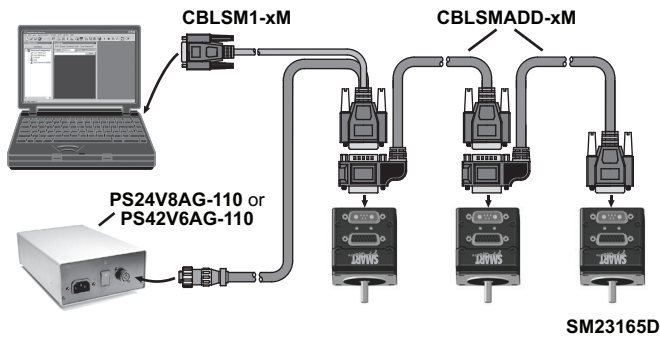


PIN	DESCRIPTION
1	NC
2	NC
3	GND CAN
4	CAN-H
5	CAN-L



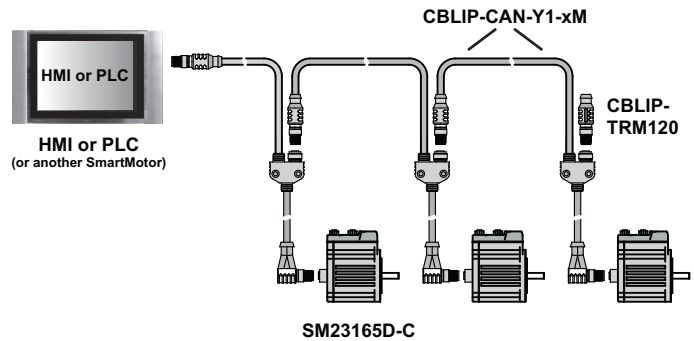
Class 5 Multi-Axis Connection Maps

RS232 Multidrop using Add-A-Motor Cable



15 Amps maximum continuous load

CAN Bus Multidrop using CAN Bus Y Cables

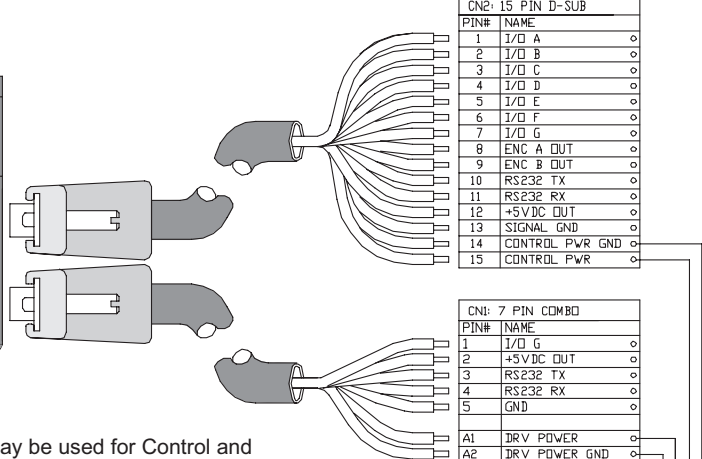
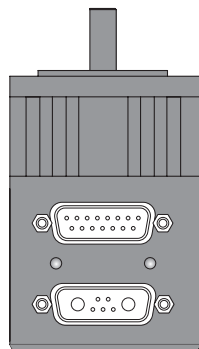


HIGHLY RECOMMENDED OPTION. PLEASE READ !

Hardware "DE" Option:

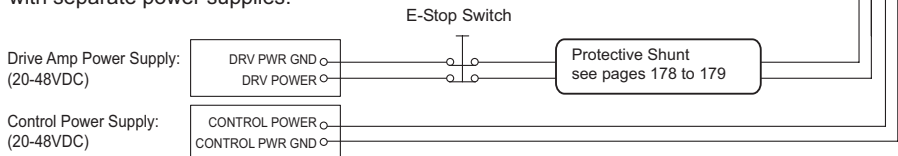
The DE option allows the controller and drive-amplifier to be powered from separate 24-48 VDC power supplies.

- Controller can be powered from a standard 24 VDC supply
- **Position will not be lost on loss-of-drive-power**
- **No need to re-home**
- Load surges will not cause power surge on controller
- Standard battery options are made simpler

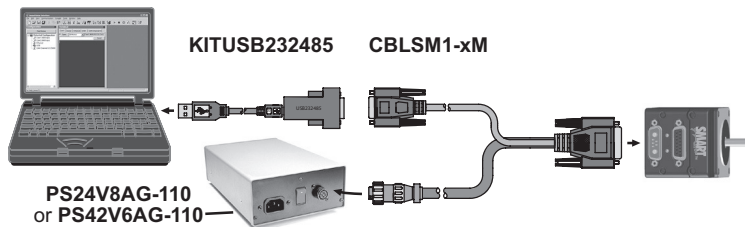


Note:

The same supply may be used for Control and Drive power, but maximum protection is provided with separate power supplies.

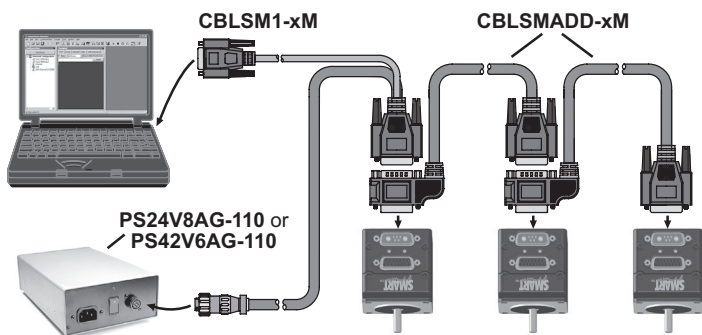
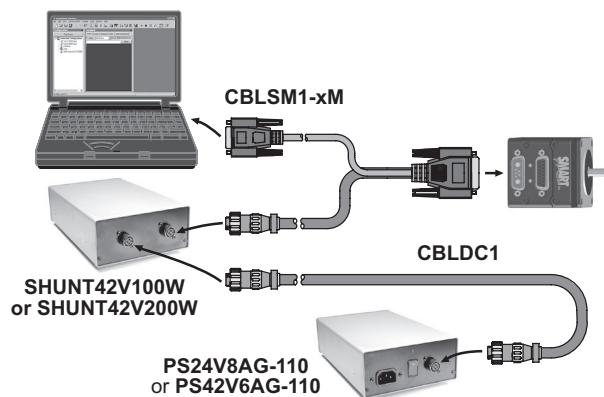


Note: All IP sealed SmartMotors are designed to always have separate drive and control power. As a result, no DE designation is available for IP sealed SmartMotors. Control power on IP sealed SmartMorors is rated for 24VDC, maximum of 32VDC.



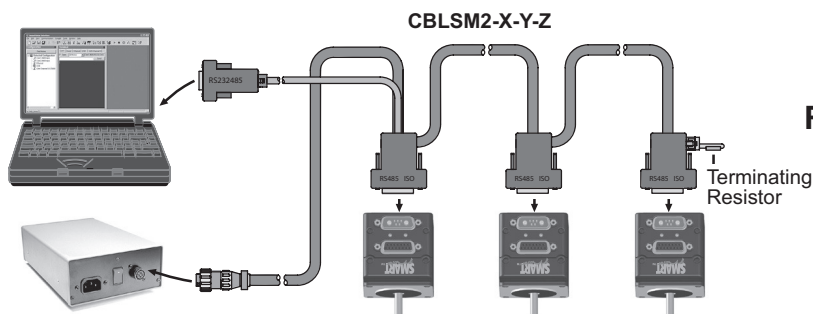
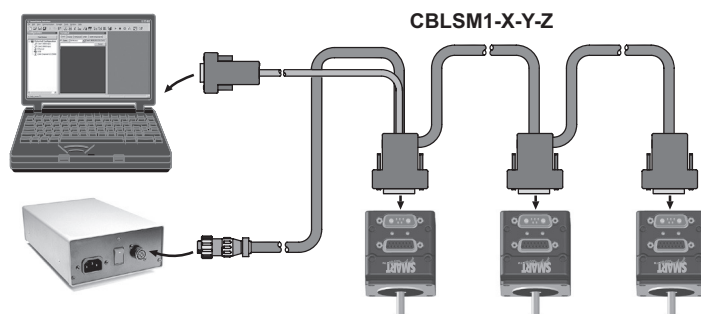
**RS-232 Communications
Using USB Adapter**

**RS-232 Communications with
Power Supply & Protective Shunt**

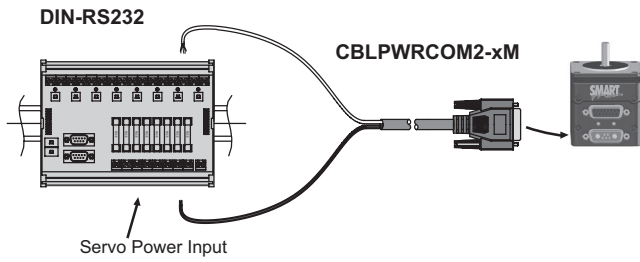


**RS-232 Multidrop using
Add-A-Motor™ Cables**

**RS-232 Multidrop using
Custom Order Cable**

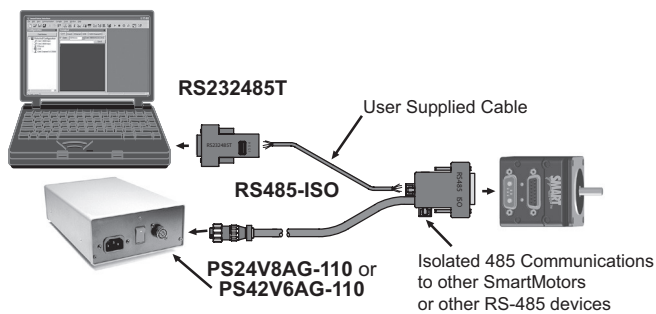
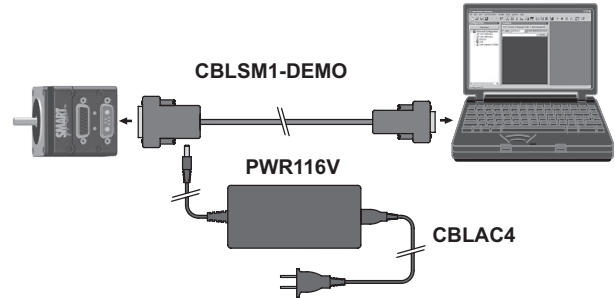


**RS-485 Isolated Communications
Using Custom Order Cable**



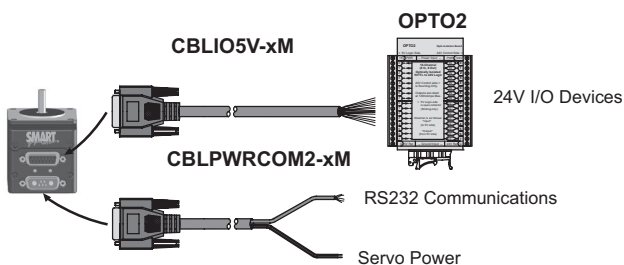
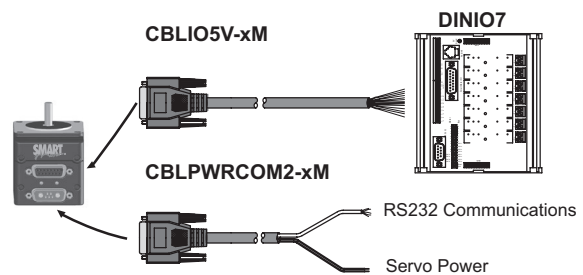
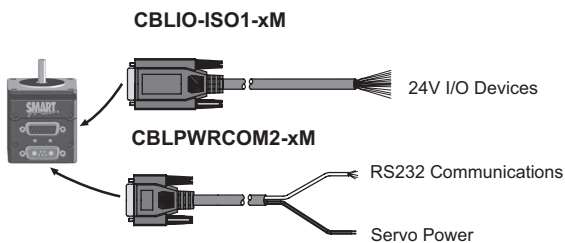
Isolated RS-232 Communications for up to 8 SmartMotor servos

Demonstration & Development Configurations

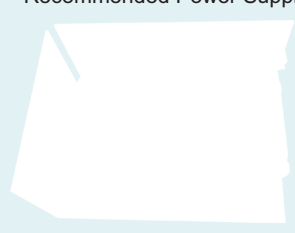


Isolated RS-485 Communications

Interfacing with 24V I/O Devices

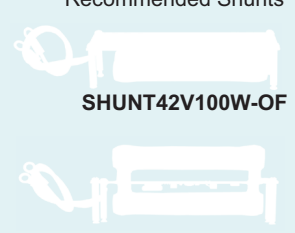


Recommended Power Supply



PS42V20AF series

Recommended Shunts



SHUNT42V100W-OF

SHUNT42V200W-OF

OVERVIEW
MOTOR SPECIFICATIONS
LINEAR SYSTEMS
CONNECTIVITY
PERIPHERALS
IP 65 MODELS & CONNECTIVITY
POWER SUPPLIES & SHUNTS
GEAR HEADS
SOFTWARE
APPENDIX