INTELLIGENT MOTION SYSTEMS, INC.

Excellence in Motion™

MULTI DROP COMMUNICATIONS CABLE

PD10-1434-FL3

Prototype Development Cable
For Use With:
MDrive14Plus Motion Control
MDrive17Plus Motion Control
MDrive23Plus Motion Control
MDrive34Plus Motion Control

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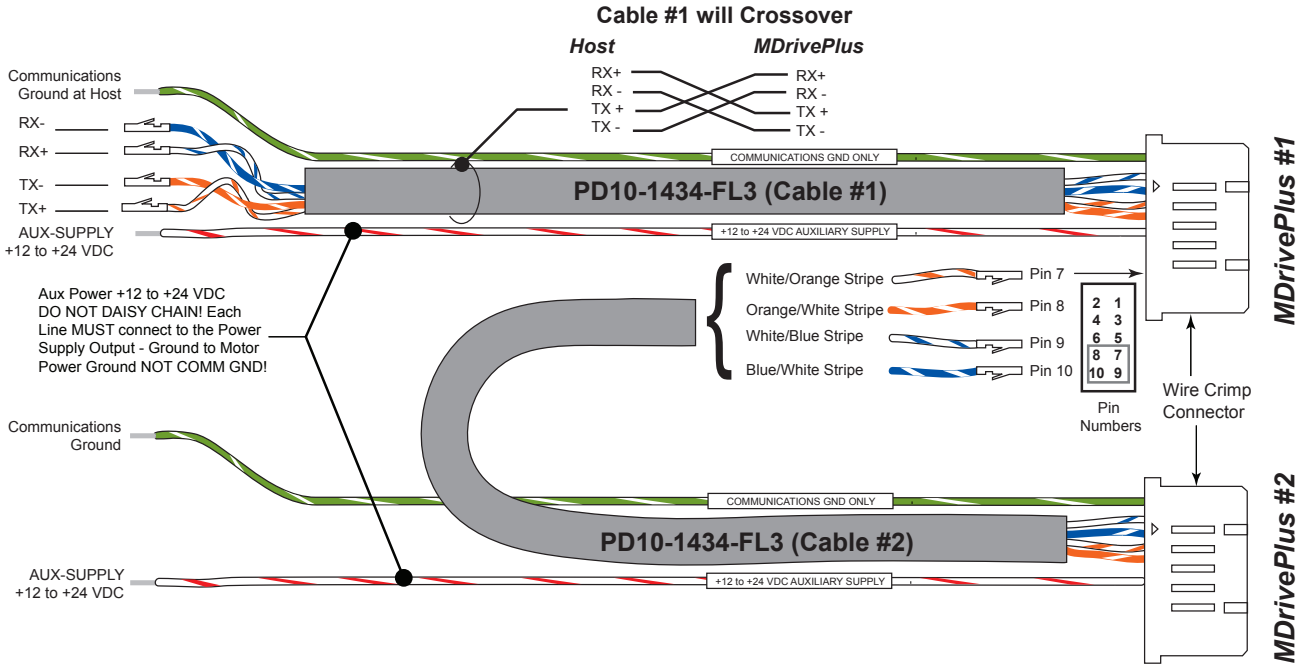
PD10-1434-FL3 Connections		
Color Combination	Flying Lead End Connections Cable 1	MDrive #1 Wire Crimp Connection
White/Blue	RX+ (Comm Host)	TX+ (Pin 1)
Blue/White	RX+ (Comm Host)	TX- (Pin 4)
White/Orange	TX+ (Comm Host)	RX+ (Pin 6)
Orange/White	TX- (Comm Host)	RX- (Pin 3)
Green/White	COMM GND (Comm Host)	COMM GND (Pin 2)
White/Red	AUX-Power (At Supply)	AUX-Power (Pin 5)
MDrive #2 Wire Crimp Connection		
Color Combination	Flying Lead End Connections Cable 2	MDrive #2 Wire Crimp Connection
White/Blue	TX+ (Pin 9 - Cable 1)	TX+ (Pin 1)
Blue/White	TX- (Pin 10 - Cable 1)	TX- (Pin 4)
White/Orange	RX+ (Pin 7 - Cable 1)	RX+ (Pin 6)
Orange/White	RX- (Pin 8 - Cable 1)	RX- (Pin 3)
Green/White	COMM GND (Comm Host)	COMM GND (Pin 2)
White/Red	AUX-Power (At Supply)	AUX-Power (Pin 5)



Setup Instructions — Cable #1

1. Cut crimp pins from Communications Wires and strip insulation back approximately 1/4".
2. Connect receive (RX) and transmit (TX) lines as shown in the diagram and table above to your RS-422/485 Host interface.
3. Connect Communications Ground line to the Comm Ground of your RS-422/485 Host.
4. Connect Aux-Power (if used) to the +VDC Output of a +12 to +24 VDC Supply.
5. Connect the return (GND) of the Aux-Supply to Power Ground of the MDrivePlus.
6. Plug the wire crimp connector of Cable #1 into P2 of the MDrivePlus #1.

Setup Instructions — Cable #2 and Subsequent MDrives

1. Insert the crimped transmit and receive lines into the 10-Pin wire crimp connector of Cable #1 as shown in the diagram and table above.
2. Connect communications ground (May be daisy-chained).
3. Connect Aux-Supply at the +VDC output of the +12 to +24 VDC Supply (May NOT be daisy-chained).
4. Plug the wire crimp connector of Cable #2 into P2 of MDrivePlus #2
5. Repeat Steps 1-4 for each additional MDrivePlus in the system.

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