



DPI Screw Terminal Cable Adapter Kits

Items Included with each Kit

Full Kit Catalog # 1202-CBL-KIT-100M	
Qty.	Item Description
2	8-pin MiniDIN-to-Screw Terminal Adapter
1	Mini-screwdriver (fits screw terminals)
1	Wire Strip Tool (for stripping 26 AWG wire ends)
100 m	Cable (26 AWG x 4 twisted and shielded pairs)
1	Installation Instructions (this sheet)

Adapter-Only Kit Catalog # 1202-TB-KIT-SET	
Qty.	Item Description
2	8-pin MiniDIN-to-Screw Terminal Adapter
1	Installation Instructions (this sheet)

NOTE: The Adapter-Only Kit is provided so additional cable assemblies can be made with the 100 meter cable supplied in the Full Kit. It can also be used by customers that already have the tools and purchase their cable separately.

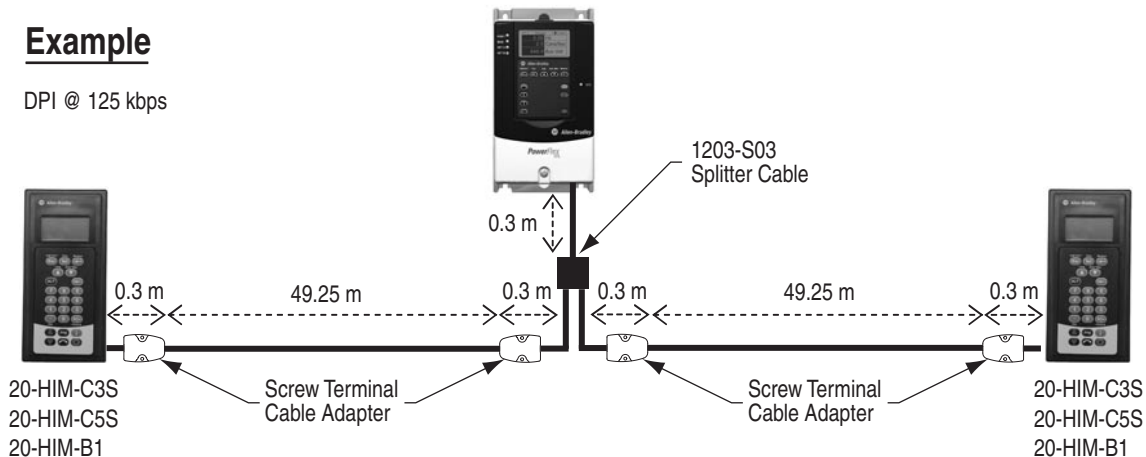
Important: When using the Adapter-Only Kit (Catalog # 1202-TB-KIT-SET), we have tested and recommend using a cable sold by Quabbin (p/n 2906), or equivalent. The Quabbin cable is an equivalent to the cable supplied in the Full Kit (Catalog # 1202-CBL-KIT-100M) except that it has different wire pair colors (see [Table 1](#) on back page) and a foil shield.

DPI Cable Requirements/Recommendations

- The maximum cable distance between a DPI peripheral and DPI host is:
 - 75 meters with 500 kbps DPI data rate
 - 100 meters with 125 kbps DPI data rate
- The maximum DPI cable length is the SUM of all connected cables between the drive and peripherals(s). This includes all cables connected via the DPI Screw Terminal cable, 1203-S03 splitter cable, and 1203-SG2/1203-SG4 expander modules.

Example

DPI @ 125 kbps

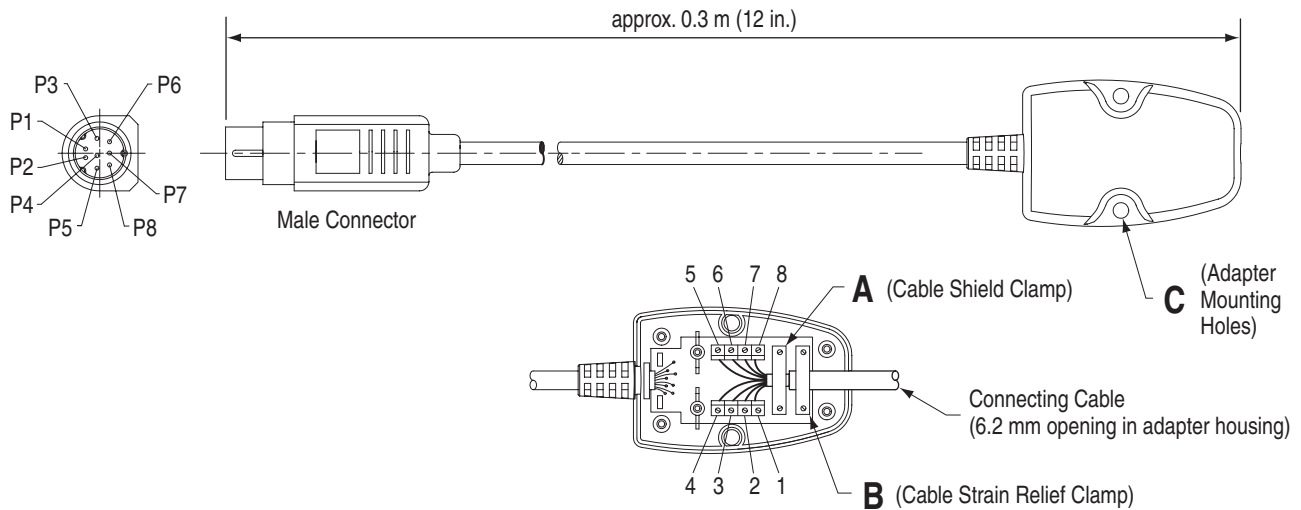


Cable Length Calculations:

- (1) 1203-S03 + (4) Screw Terminal Cable Adapters = 1.5 m (5 x 0.3 m)
- 100 m maximum - 1.5 m = 98.5 m additional cable length allowed
- 98.5 m ÷ 2 peripherals = 49.25 m each if equi-distant lengths are desired (not required)

- The installer must follow common system wiring practices and route cables away from sources of EMI, such as drive input power and motor cables.

Cable Connections



1. At one end of the connecting cable, strip back the cable jacket 30 mm (1.18 in.) to expose the shield and twisted wire pairs. Then strip back the cable's shield 24 mm (0.94 in.) to expose the twisted wire pairs. Remove 4 mm (0.16 in.) of insulation from the wires of each twisted pair. Then connect the stripped wires of each twisted pair to their corresponding terminals shown in [Table 1](#):

Table 1: Cable Wire Connections

Integral Cable of Terminal Adapter		Connecting Cable Wire Colors			
MiniDIN Plug	Connected to . . .	Cable in Full Kit ⁽¹⁾		Quabbin Cable ⁽²⁾	
Pin 1	Terminal 1	Black	Twisted Pair	White/Green	Twisted Pair
Pin 6	Terminal 2	Green		Green	
Pin 3	Terminal 3	Red	Twisted Pair	White/Orange	Twisted Pair
Pin 4	Terminal 4	Orange		Orange	
Pin 5	Terminal 7	Yellow	Twisted Pair	Brown	Twisted Pair
Pin 8	Terminal 8	White		White/Brown	
Pin 2	Terminal 6	Brown	Twisted Pair	White/Blue	Twisted Pair
Pin 7	Terminal 5	Blue		Blue	
Shell	Shield clamp (A)	Shield	—	Shield	—

⁽¹⁾ Twisted pair wire colors for the 100 meter cable supplied with the Full Kit (Catalog # 1202-CBL-KIT-100M).

⁽²⁾ Twisted pair wire colors for the Quabbin cable (p/n 2906) that is recommended when using the Adapter-Only Kit (Catalog # 1202-TB-KIT-SET).

Important: Cable wire colors are subject to change at any time. If the connecting cable wire colors are different than those listed above, make sure that each twisted pair is terminated to the same terminal numbers on both ends of the cable.

2. Make sure that the connecting cable's shield is tightly secured under the cable shield clamp (A). If a foil shield is used (Quabbin cable), the blue side of the foil shield is non-conductive. In this case, fold back the foil to expose the silver side of the foil to the shield clamp before installing.
3. Tightly secure the connecting cable's outer jacket under the cable strain relief clamp (B).
4. The terminal adapter's two mounting holes (C) can be used to secure the adapter to a flat surface. Use #8 screws (not supplied) of an appropriate length for the application.
5. Connect the other end of the connecting cable to the second terminal adapter. Repeat steps 1 through 4.

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