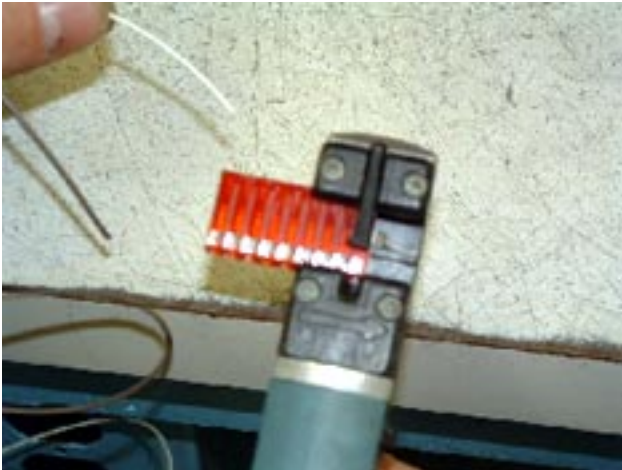


## Connecting to the MBC25P22

The MBC25SI1 is designed with cost savings and size as two of the primary design criteria. For this reason, the MTA-156 series connector was chosen for these products as a reliable, small and low cost connector. This is a common Insulation Displacement Connector (IDC) manufactured by AMP Corporation. The inputs to the driver are on 9-Pin connector, the motors are on a 10-pin connector and the analog potentiometer is on a 3 pin MTA-100 series connector. These connectors are not supplied with the driver, but can be purchased from Anaheim Automation or AMP/Tyco Electronics.

These two images show how a hand tool can be used to quickly make the cable to connect to the driver.



| Part Number  | Description  |
|--------------|--|
| MBC25P22     | 2.5A Microstep Driver with integrated Programmable Pulse Generator |
| PSAM24V2.7A  | Power supply for MBC25P11 (24V@2.7A)                               |
| CON-6404289  | Optional 9 pin connector, 0.156" IDC (AMP part no. 640428-9)       |
| CON-16404280 | Optional 10 pin connector, 0.156" IDC (AMP part no. 1-640428-0)    |
| CON-6404403  | Optional 3 pin connector, 0.100" IDC (AMP part no. 640440-3)       |
| AA9MFC-6     | 6 foot serial communication cable, Male to Female                  |

| Connector P1: |                                    |
|---------------|------------------------------------|
| Pin #         | Description                        |
| 1             | Power Supply Ground (0VDC)         |
| 2             | Power Supply Input (12VDC - 35VDC) |
| 3             | Run                                |
| 4             | Busy                               |
| 5             | Max1/Max2                          |
| 6             | Clock Output of Internal Clock     |
| 7             | Motor On/Off                       |
| 8             | Direction In                       |
| 9             | External Clock Input               |

| Connector P2: (One Motor) |                  |
|---------------------------|------------------|
| Pin #                     | Description      |
| 1                         | Motor 1, Phase 1 |
| 2                         | Motor 1, Phase 3 |
| 3                         | Motor 1, Phase 2 |
| 4                         | Motor 1, Phase 4 |
| 5                         | Motor Ground     |
| 6                         | No Connect       |
| 7                         | No Connect       |
| 8                         | No Connect       |
| 9                         | No Connect       |
| 10                        | No Connect       |

| Connector JP1: |             |
|----------------|-------------|
| Pin #          | Description |
| 1              | 5VDC        |
| 2              | Pot Wiper   |
| 3              | 0VDC        |