

3. Connections

3.1 Wiring



DANGER

Always turn the power for the entire system OFF before starting wiring work. Failing to do so could result in electrical shocks.

3.1.1 Wiring the AB phase input connector

Wire the AB phase input cable connector as shown in the following signal table.

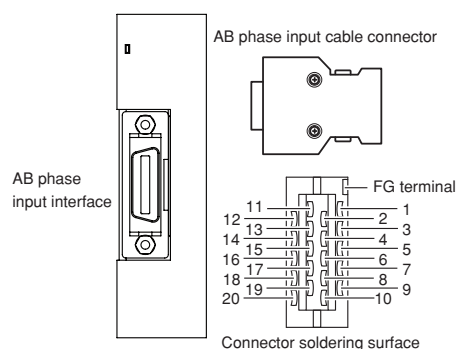


NOTE

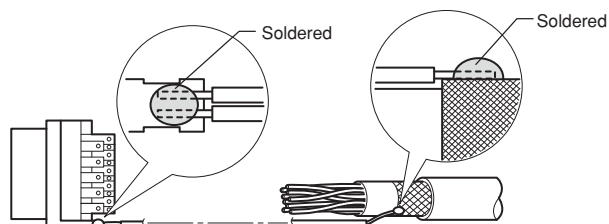
This step is not required when using the optional AB phase input cable.

■ AB phase input interface signal table

Terminal No.	Signal Name	Signal Description
1	+5V	Counter power +5V
2	NC	Use is prohibited
3	PA1+	Counter 1 + A phase
4	PA1-	Counter 1 - A phase
5	PB1+	Counter 1 + B phase
6	PB1-	Counter 1 - B phase
7	PZ1+	Counter 1 + Z phase
8	PZ1-	Counter 1 - Z phase
9	0V	Counter power 0V
10	NC	Use is prohibited
11	+5V	Counter power +5V
12	NC	Use is prohibited
13	PA2+	Counter 2 + A phase
14	PA2-	Counter 2 - A phase
15	PB2+	Counter 2 + B phase
16	PB2-	Counter 2 - B phase
17	PZ2+	Counter 2 + Z phase
18	PZ2-	Counter 2 - Z phase
19	0V	Counter power 0V
20	NC	Use is prohibited

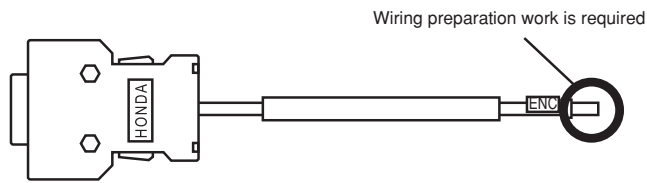


Solder the FG wire to the shield mesh to connect to the FG terminal of the AB phase input cable connector.



3.1.2 Wiring the optional AB phase input cable (Type: KX0-M66AF-00)

As shown in the illustration below, there is no connector at the end which connects to the encoder. This connector must be prepared by the user.



The cable core wires and their corresponding signals are shown in the table below.

Core Wire Color	Signal Name	Signal Description
Blue	PA1+	Counter 1 + A-phase
Orange	PA1-	Counter 1 - A-phase
Green	PB1+	Counter 1 + B-phase
Brown	PB1-	Counter 1 - B-phase
Gray	PZ1+	Counter 1 + Z-phase
Red	PZ1-	Counter 1 - Z-phase
Black	0V	Counter power supply 0V
Yellow	+5V	Counter power supply +5V
Gray (thick)	FG	Frame ground for shielded wire

3.2 Connecting and removing the AB phase input cable connector

3.2.1 Connecting the AB phase input cable connector

Connect the AB phase input cable connector to the AB phase input interface.

