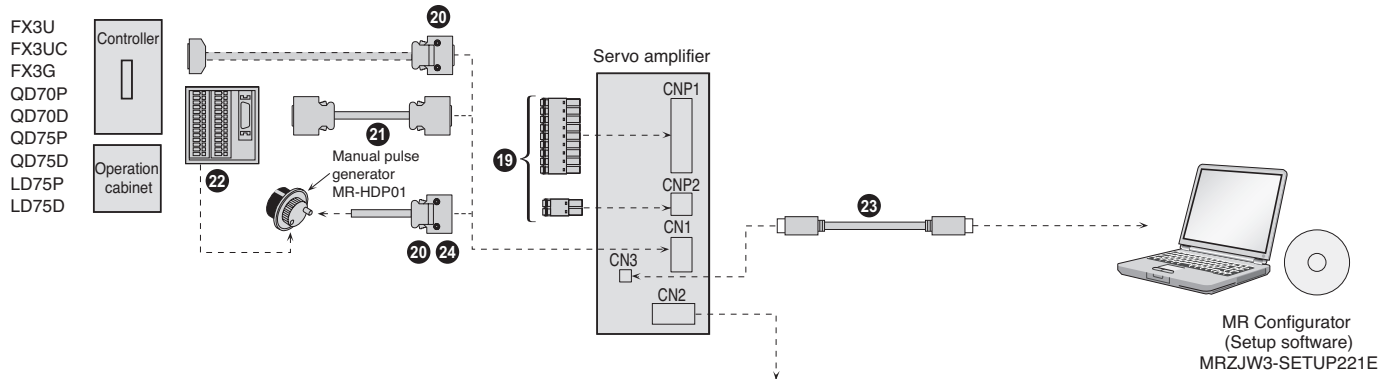


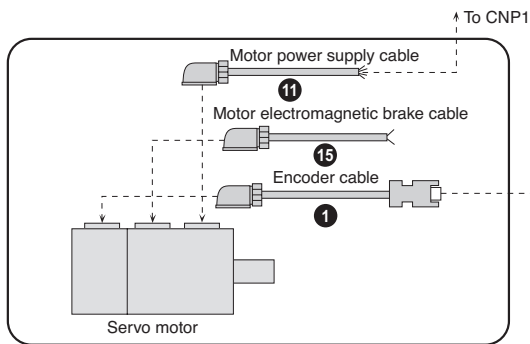
Cables and Connectors

HF-JN Cables and Connectors

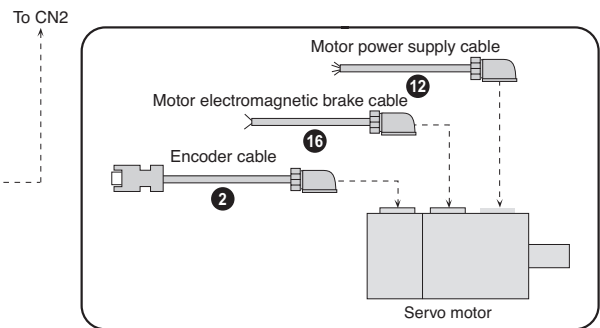


For encoder cable length 10M or shorter

For leading the cables out in a direction of the motor shaft (*4)

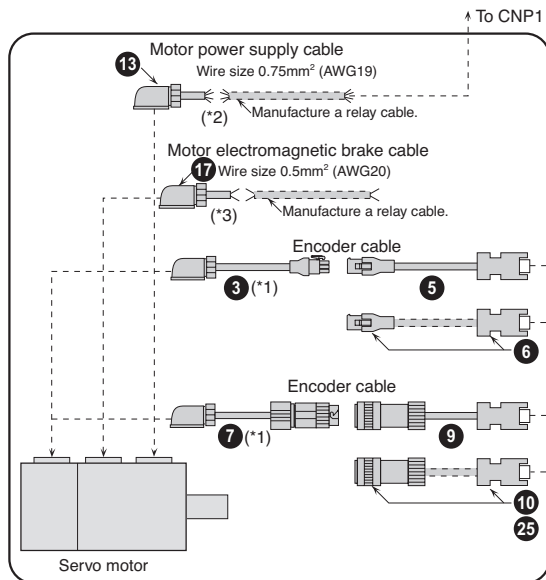


For leading the cables out in an opposite direction of the motor shaft (*4)

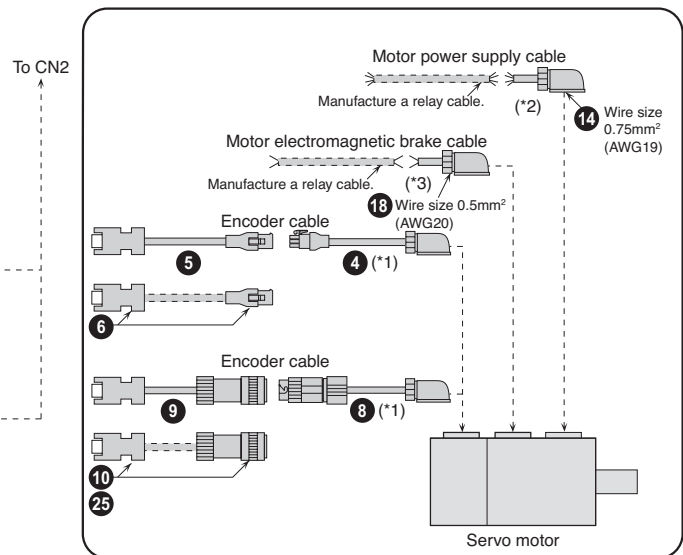


For encoder cable length over 10M

For leading the cables out in a direction of the motor shaft (*4)



For leading the cables out in an opposite direction of the motor shaft (*4)



Notes:

1. This cable does not have a long bending life, so always fix the cable before using.
2. If the length exceeds 10m, relay a cable using MR-PWS2CBL03M-A1-L/-A2-L cable. This cable does not have a long bending life, so always fix the cable before using. Refer to "MR-JN_A INSTRUCTION MANUAL" for details on manufacturing the relay cable.
3. If the length exceeds 10m, relay a cable using MR-BKS2CBL03M-A1-L/-A2-L cable. This cable does not have a long bending life, so always fix the cable before using. Refer to "MR-JN_A INSTRUCTION MANUAL" for details on manufacturing the relay cable.
4. Cables for leading two different directions may be used for one Servo Motor.

MR-JN Rotary Cables and Connectors (refer to chart on previous page)

Encoder Cables

Item			Model Number (_ = cable length in meters)	Stocked Lengths	Protection Level (*2)	Diagram
①	10m or Shorter (Direct Connection Type)	Lead Out in Direction of Motor Shaft	MR-J3ENCBL_M-A1-H _ = 2, 5 or 10 (*1)	2, 5, 10	IP65	
			MR-J3ENCBL_M-A1-L _ = 2, 5, or 10 (*1)	2, 5, 10	IP65	
②		Lead Out in Opposite Direction of Motor Shaft	MR-J3ENCBL_M-A2-H _ = 2, 5, or 10 (*1)	2, 5, 10	IP65	
			MR-J3ENCBL_M-A2-L _ = 2, 5, or 10 (*1)	2, 5, 10	IP65	
③	Exceeding 10m (Relay Type)	Lead Out in Direction of Motor Shaft	MR-J3JCBLO3M-A1-L cable length 0.3 (*1)	S	IP20	
④		Lead Out in Opposite Direction of Motor Shaft	MR-J3JCBLO3M-A2-L cable length 0.3 (*1)	S	IP20	
⑤		Amplifier-Side Cable	MR-EKCBL_M-H _ = 20, 30, 40, or 50 (*1)	20, 30	IP20	<p>Use this in combination with 5 or 6.</p>
			MR-EKCBL_M-L _ = 20 or 30 (*1)	-	IP20	
⑥		Junction Connector, Amplifier-Side Connector	MR-ECNM	S	IP20	
⑦		Motor Side Encoder Cable Lead Out in Direction of Motor Shaft	MR-J3JSCBL03M-A1-L Cable length 0.3m (*1)	S	IP65	<p>Use this in combination of cable numbers 9 or 10</p>
⑧		Motor Side Encoder Cable Lead Out in Opposite Direction of Motor Shaft	MR-J3JSCBL03M-A2-L Cable length 0.3m (*1)	S	IP67	
⑨		Amplifier-Side Encoder Cable	MR-J3ENSCBL_M-H _ = cable length 2, 5, 10, 20, 30, 40, 50m (*1)	2, 5, 10, 20, 30	IP67	<p>Use this in combination of cable numbers 7 or 8</p>
			MR-J3ENSCBL_M-L _ = cable length 2, 5, 10, 20, 30m (*1)	2, 5	IP67	
⑩		Junction Connector Set	MR-J3SCNS	S	IP67	

Notes:

- H and -L indicate bending life. -H indicates a long bending life and -L indicates a standard bending life.
- The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/Servo Motor. If the IP rating of the servo amplifier/Servo Motor differs from that of these connectors, overall IP rating depends on the lowest of all.

Motor Power Supply Cables

Item			Model Number (_ = cable length in meters)	Stocked Lengths	Protection Level	Diagram
⑪	10m or Shorter (Direct Connection Type)	Lead Out in Direction of Motor Shaft (Non-Shielded)	MR-PWS1CBL_M-A1-H _ = 2, 5 or 10 (*1, *2)	2, 5, 10	IP65	
		Lead Out in Direction of Motor Shaft (Shielded)	MR-J3PS_M-A1 _ = 5 or 10	5	IP65	
		Lead Out in Opposite Direction of Motor Shaft (Non-Shielded)	MR-PWS1CBL_M-A2-H _ = 2, 5 or 10 (*1, *2)	2, 5, 10	IP65	
		Lead Out in Opposite Direction of Motor Shaft (Shielded)	MR-PWS1CBL_M-A2-L _ = 2, 5 or 10 (*1, *2)	2, 5, 10	IP65	
⑫	Exceeding 10m (Relay Type)	Lead Out in Opposite Direction of Motor Shaft (Shielded)	MR-J3PS_M-A2 _ = 5 or 10	5, 10	IP65	
⑬		Lead Out in Direction of Motor Shaft (Non-Shielded)	MR-PWS2CBL03M-A1-L cable length 0.3 (*2)	S	IP55	
		Lead Out in Direction of Motor Shaft (Shielded)	MR-J3PS03M-A1 cable length 0.3 (*2)	S	IP65	
		Lead Out in Opposite Direction of Motor Shaft (Non-Shielded)	MR-PWS2CBL03M-A2-L cable length 0.3 (*2)	S	IP55	
⑭		Lead Out in Opposite Direction of Motor Shaft (Shielded)	MR-J3PS03M-A2 cable length 0.3 (*2)	S	IP65	

Notes:

- Must order separate power connector 27 or 28 to connect to the power cable.
- H and -L indicate bending life. -H indicates a long bending life and -L indicates a standard bending life.



Motor Brake Cables

Item			Model Number (_ = cable length in meters)	Stocked Lengths	Protection Level	Diagram
⑮	10m or Shorter (Direct Connection Type)	Lead Out in Direction of Motor Shaft	MR-BKS1CBL_M-A1-H _ = 2, 5, or 10 (*1)	2, 5, 10	IP65	
			MR-BKS1CBL_M-A1-L _ = 2, 5, or 10 (*1)	-	IP65	
⑯		Lead Out in Opposite Direction of Motor Shaft	MR-BKS1CBL_M-A2-H _ = 2, 5, or 10 (*1)	2, 5, 10	IP65	
			MR-BKS1CBL_M-A2-L _ = 2, 5, or 10 (*1)	-	IP65	
⑰	Exceeding 10m (Relay Type)	Lead Out in Direction of Motor Shaft	MR-BKS2CBL03M-A1-L cable length 0.3 (*1)	S	IP55	
⑱		Lead Out in Opposite Direction of Motor Shaft	MR-BKS2CBL03M-A2-L cable length 0.3 (*1)	S	IP55	




Note:

- H and -L indicate bending life. -H indicates a long bending life and -L indicates a standard bending life.


CNP1 and CNP2 Connectors

Item	Model Number	Stocked Item	Protection Level	Description
19	CNP1 Connector (Comes with Amplifier)	N/A (Comes with amplifier)	-	
	CNP2 Connector (Comes with Amplifier)	N/A (Comes with amplifier)	-	


CN1 Connector

Item		Model Number	Stocked Lengths	Protection Level	Description
20	CN1 Connector Set	MR-J2CMP2	S	-	
21	Junction Terminal Block Cable	MR-TBNATBL_M (_ = cable length: 0.5, 1M)	05, 1	-	
22	Junction Terminal Block	MR-TB26A	S	-	

CN3 Connector

Item		Model Number	Stocked Lengths	Protection Level	Description
23	USB Cable	MR-J3USBCBL3M (Cable length 3M)	S	-	

Pigtail Cable for CN1 on Amp

Item		Model Number	Stocked Lengths	Protection Level	Diagram
24	CN1 Pigtail Cable (26 pin)	MR-ECN1CBL-3M (Cable length 3M)	S	-	

CN2 Connector

Item		Model Number	Stocked Item	Protection Level	Diagram
25	CN2 Connector Only	MR-J3CN2	S	-	