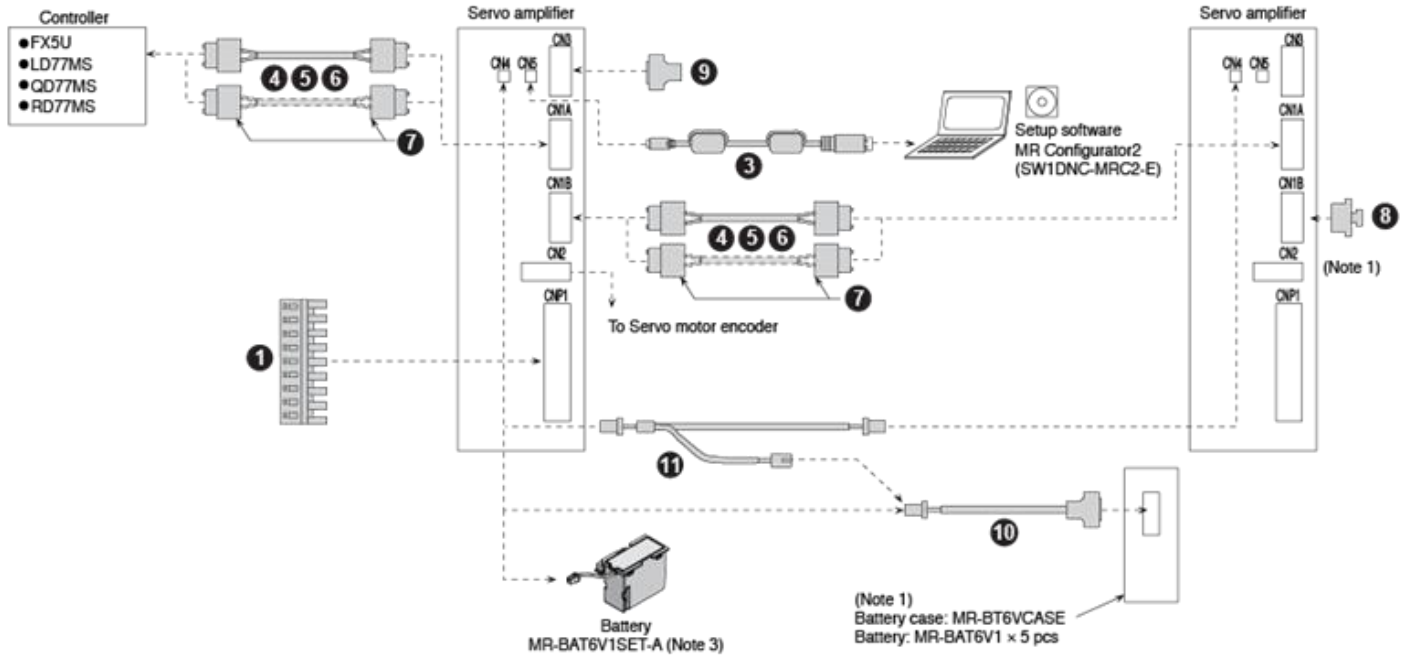
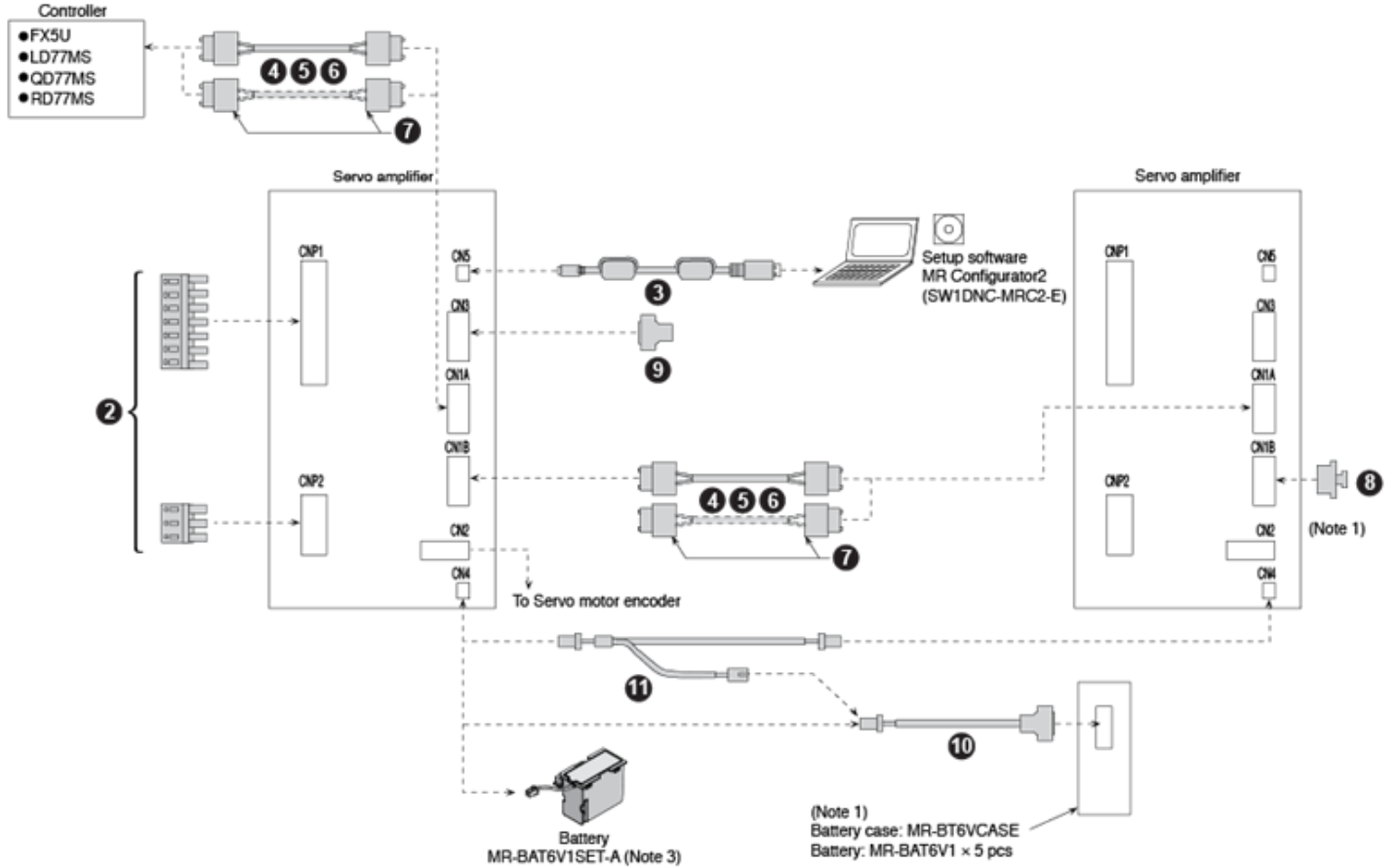


MELSERVO-JE Servo Cables & Connectors












MR-JE-B Servo Amplifier 1 kW or smaller






Servo amplifier 2 kW and 3 kW



MR-JE-B Cables and Connectors for Servo Amplifiers

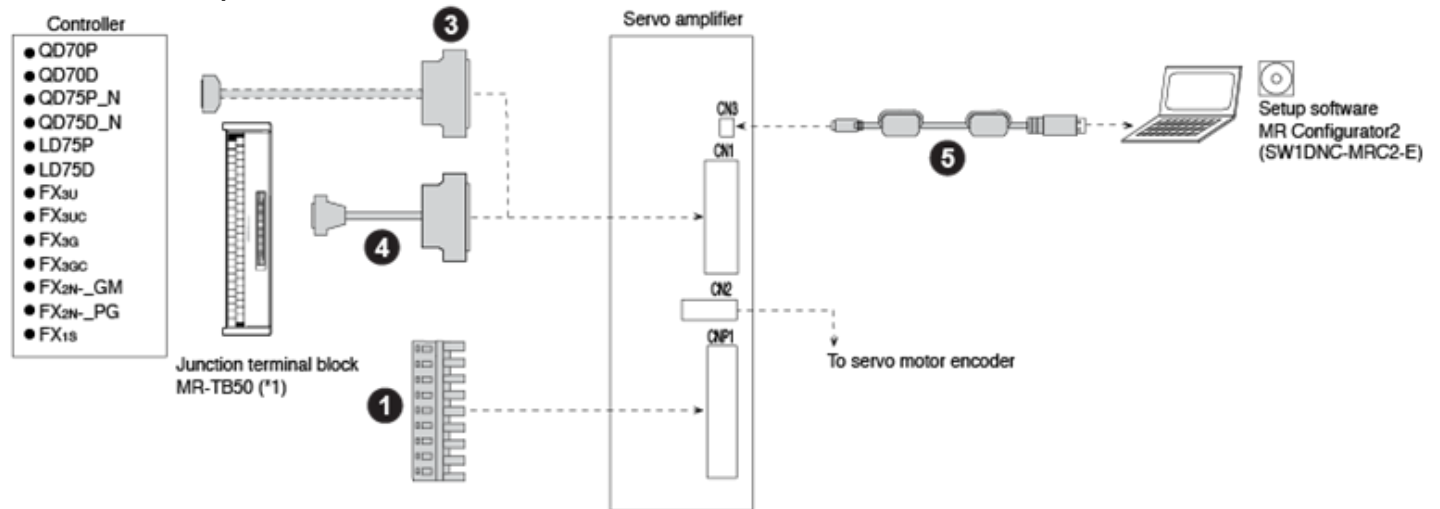
Item	Model	Stocked Lengths (m)	Protection Level	Description
1	Servo Amplifier CNP1 Power Connector (*2) For MR-JE-100B or Smaller (Insertion Type)	MR-JECNP1-01 -	S	<p>CNP1 connector</p>  <p>Open tool</p>  <p>Applicable wire size (*1) : AWG 18 to 14 Insulator OD: up to 3.9 mm</p>
2	Servo Amplifier CNP1 Power Connector For MR-JE-200B/ MR-JE-300B (*2) (Insertion Type)	MR-JECNP1-02 -	S	<p>CNP1 connector</p>  <p>Open tool</p>  <p>Applicable wire size (*1) : AWG 16 to 10 Insulator OD: up to 4.7 mm</p>
	Servo Amplifier CNP2 Power Connector For MR-JE-200B/ MR-JE-300B (*2) (Insertion Type)	MR-JECNP2-02 -	S	<p>CNP2 connector</p>  <p>Applicable wire size (*1) : AWG 16 to 10 Insulator OD: up to 4.7 mm</p>
3	Personal Computer Communication Cable (USB Cable)	MR-J3USBCBL3M S	-	<p>Servo amplifier connector mini-B connector (5-pin)</p>  <p>Personal computer connector A connector</p>  <p>* Do not use this cable for SSCNET III(H) compatible controller.</p>
4	SSCNET III Cable (Standard Cord Inside Cabinet)Compatible with SSCNET III(H) (*3) For Controller/CN1A/CN1B	MR-J3BUS0_M _ = 0.15, 0.3, 0.5, 1, 3m	0.15, 0.3, 0.5, 1, 3	
5	SSCNET III Cable (Standard Cable Outside Cabinet) Compatible with SSCNET III(H) (*3) For Controller/CN1A/CN1B	MR-J3BUS_M-A _ = 5, 10, 20m	5, 10, 20	
6	SSCNET III Cable (Long Distance Cable, Long Bending Life) Compatible with SSCNET III(H) (*3, *5) For Controller/CN1A/CN1B	MR-J3BUS_M-B _ = 30, 40, 50m	-	
7	SSCNET III Connector Set. Compatible with SSCNET III(H). For controller/CN1A/CN1B (*3, *4)	MR-J3BCN1 -	-	 
8	SSCNET III Connector Cap. Compatible with SSCNET III(H). For CN1B	(Standard accessory) -	-	

Item	Model	Stocked Lengths (m)	Protection Level	Description
9	Connector Set MR-J2CN1	-	-	
10	Battery Cable Connecting MR-JE-B and MR-BT6VCASE MR-BT6V1CBL_M _ = 0.3, 1m	0.3, 1	-	
11	Junction Battery Cable MR-BT6V2CBL_M _ = 0.3, 1m	0.3, 1	-	

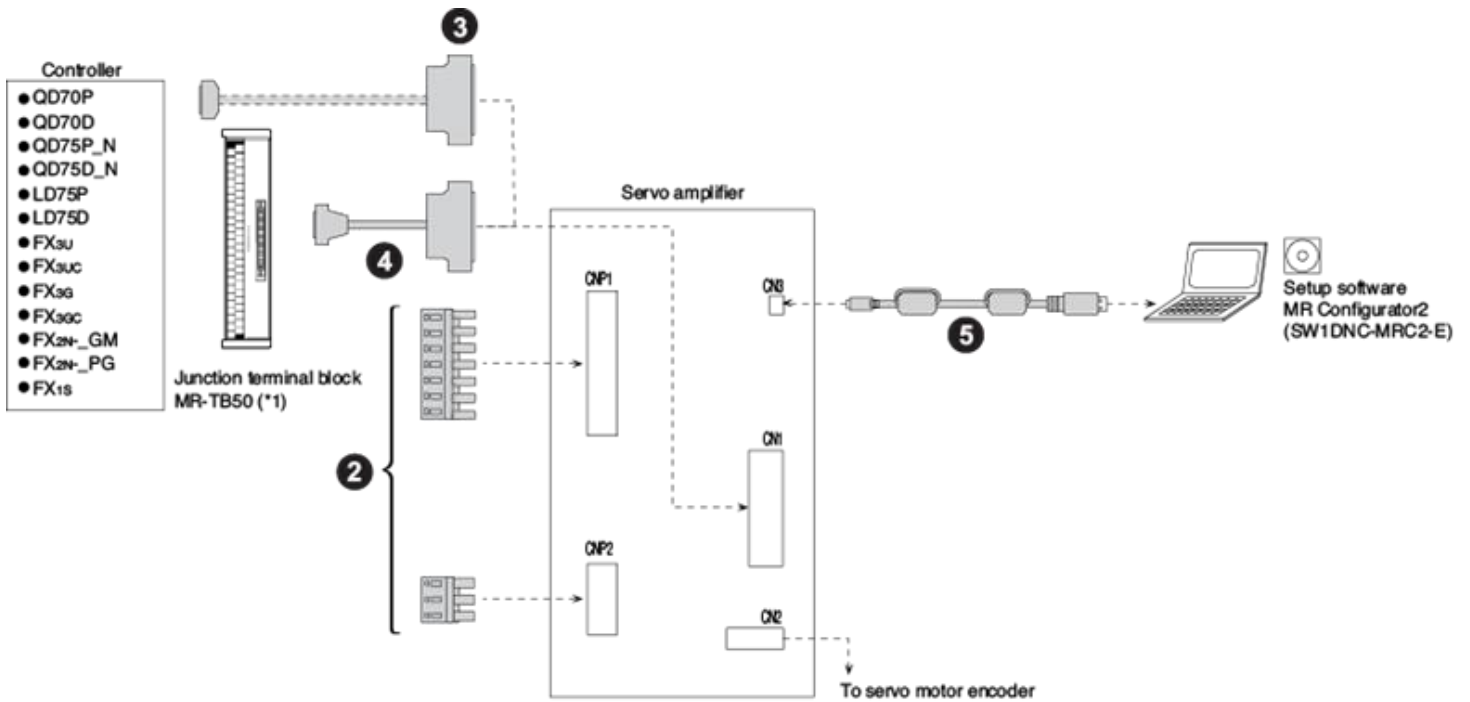
Notes:

1. The wire size shows wiring specification of the connector. Refer to "Selection Example in HIV Wires for Servo Motors" in this catalog for examples of wire size selection.
2. Two CNP1 and CNP2 connectors, and open tool are supplied with the servo amplifier.
3. Read carefully through the precautions enclosed with the options before use.
4. Dedicated tools are required. Contact your local sales office for more details.
5. When SSCNET III/H is used, refer to "Products on the Market for Servo Amplifiers" in this catalog for cables over 50 m or with ultra-long bending life.





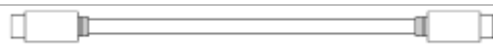
MR-JE-A Servo amplifier 1 kW or smaller



Servo amplifier 2 kW and 3 kW



MR-JE-A Cables and Connectors for Servo Amplifiers

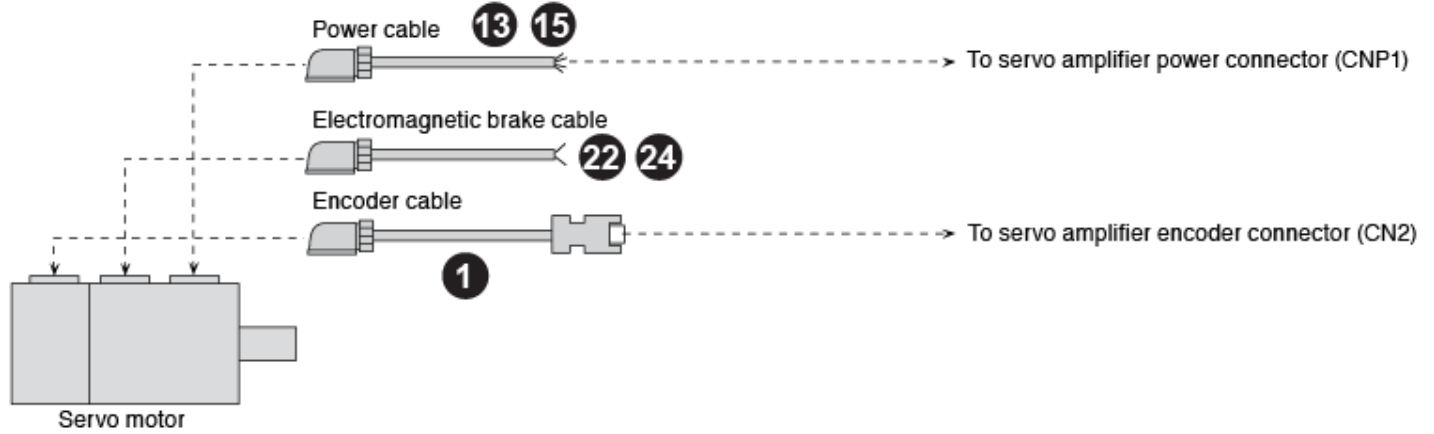
Item	Model	Stocked Lengths	Protection Level	Description
1 Servo Amplifier CNP1 Power Connector (*2) (Insertion Type)	MR-JECNP1-01	-	-	CNP1 connector Open tool  Applicable wire size (*1): AWG 18 to 14 Insulator OD: up to 3.9 mm
2 Servo Amplifier CNP1 Power Connector (*2) (Insertion Type)	MR-JECNP1-02	-	-	CNP1 connector Open tool  Applicable wire size (*1): AWG 16 to 10 Insulator OD: up to 4.7 mm
	Servo Amplifier CNP2 Power Connector (*2) (Insertion Type)	MR-JECNP2-02	-	-
3 Connector Set	MR-J3CN1	S	-	
4 Junction Terminal Block Cable	MR-J2M-CN1TBL_M	≒ 0.5M, 1M	-	
5 Personal Computer Communication Cable (USB Cable)	MR-J3USBCBL3M	3M	-	

Notes:

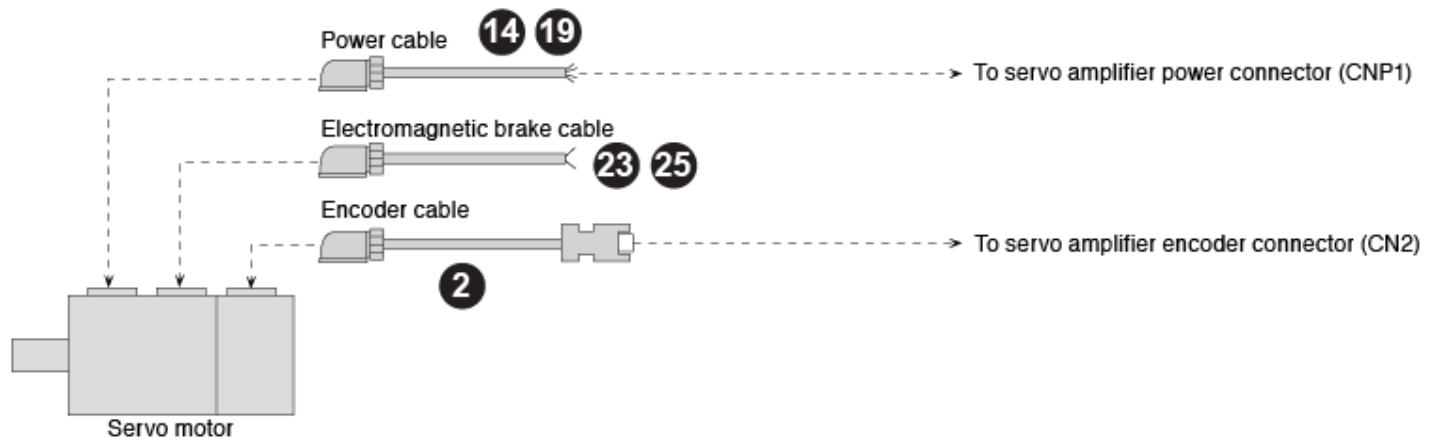
1. The wire size shows wiring specification of the connector. Refer to User Guide for examples of wire size selection.

2. CNP1 and CNP2 connectors, and open tool are supplied with the servo amplifier.

For HG-KN servo motor encoder cable length 10m or shorter
For leading the cables out in direction of load side (*1)



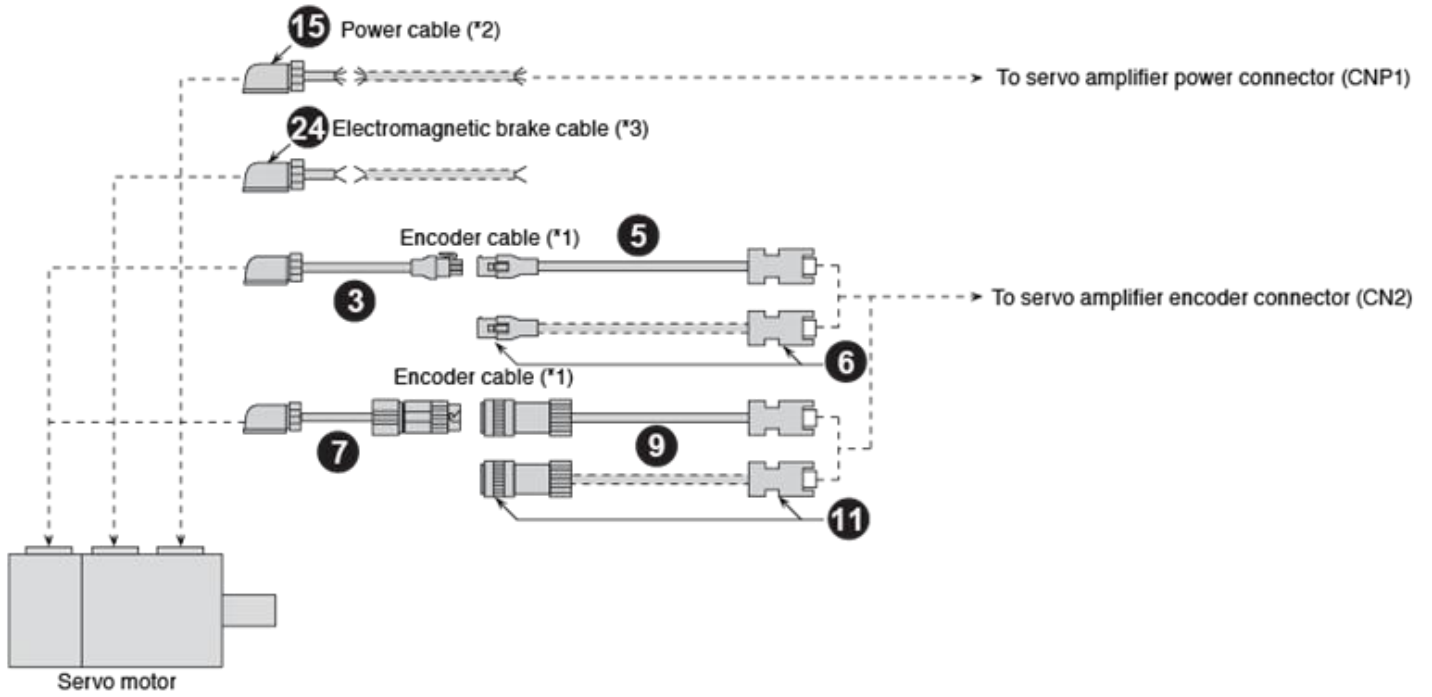
For leading the cables out in opposite direction of load side (*1)



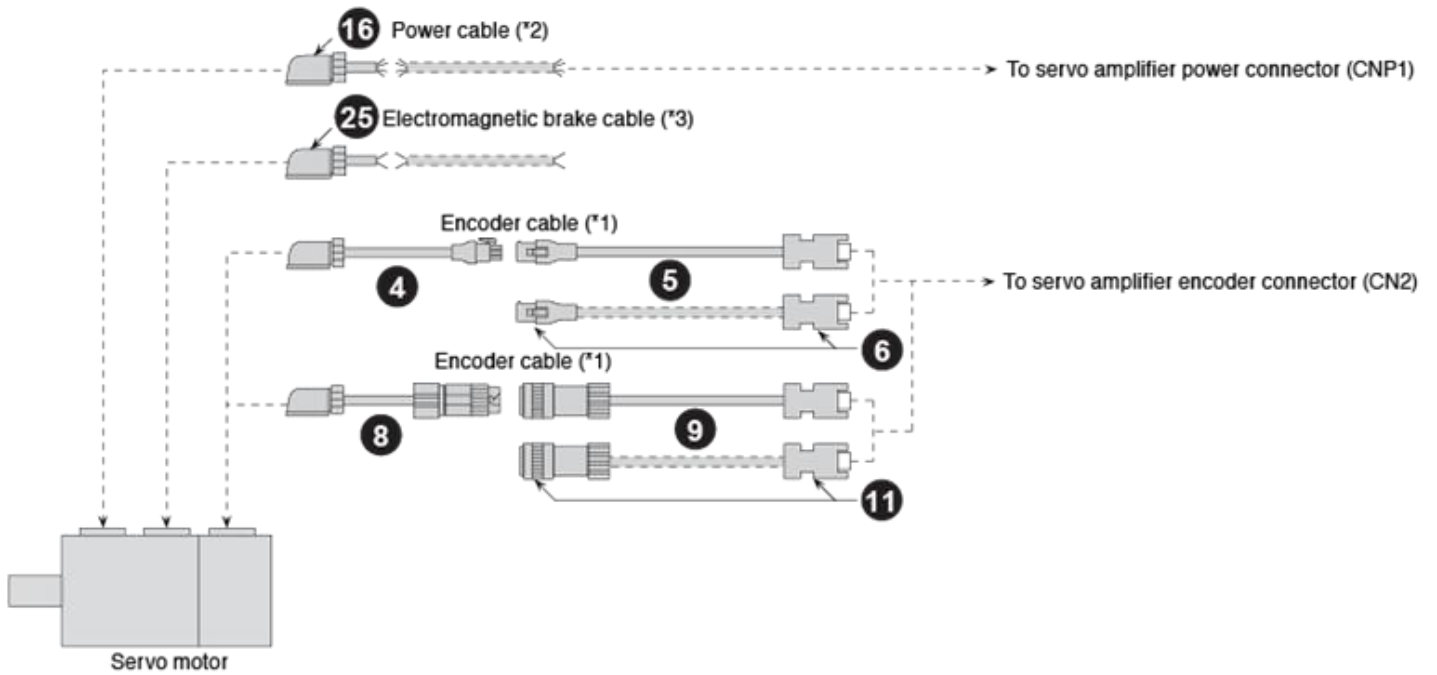
Note:

1. Cables for leading two different directions may be used for one servo motor.

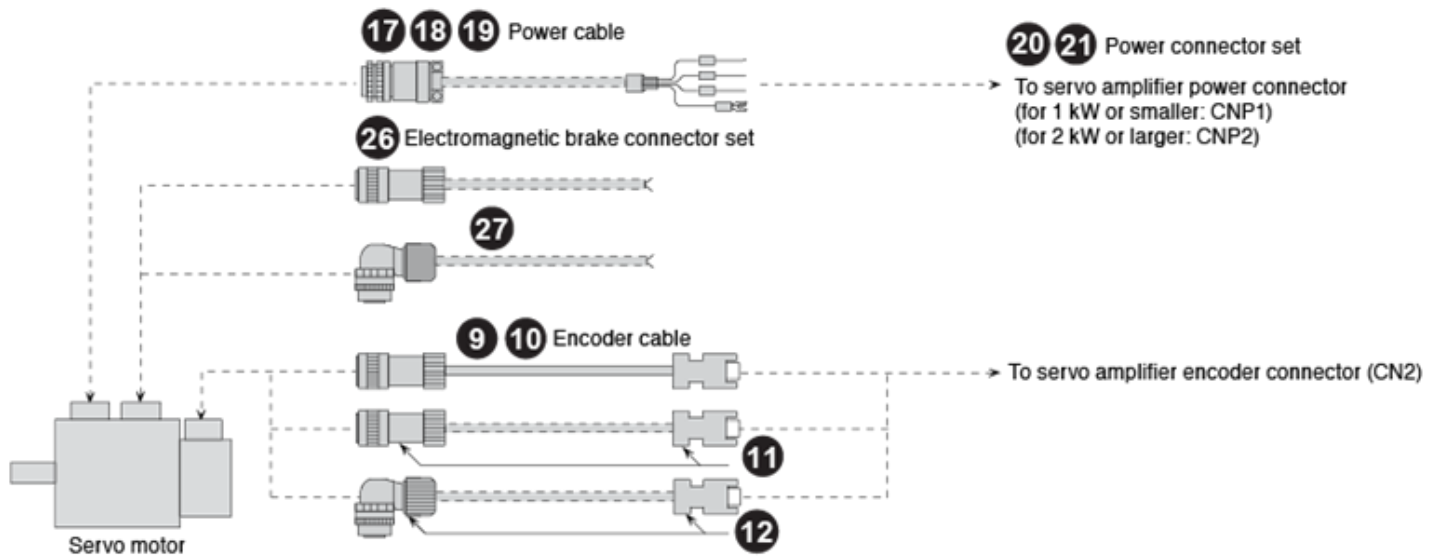
For HG-KN Servomotor Series: Encoder Cable Length over 10m
For Leading the Cables out in Direction of Load Side (*4)



For Leading the Cables out in Opposite Direction of Load Side (*4)



For HG-SN Servomotor Series







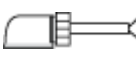





Notes:

1. This cable does not have a long bending life, be sure to fix the cable before using.
2. Relay a cable using MR-PWS2CBL03M-A1-L or MR-PWS2CBL03M-A2-L. This cable does not have a long bending life, be sure to fix the cable before using.
3. Relay a cable using MR-BKS2CBL03M-A1-L or MR-BKS2CBL03M-A2-L. This cable does not have a long bending life, be sure to fix the cable before using.<
4. Cables for leading two different directions may be used for one servomotor.
5. Cables drawn with dashed lines need to be fabricated by user. Refer to "HF-KN HF-SN Servo Motor Instruction Manual" for fabricating the cables.

MR-JE Cables and Connectors (Refer to diagrams above)

Item	Model	Stocked Lengths	Protection Level (*1)	Description
1 Encoder Cable (Load-Side Lead) (*2) For HG-KN13, 23, 43, 73 (Direct Connection Type)	MR-J3ENCBL_M-A1-H _ = 2, 5, 10	2, 5, 10	IP65	
	MR-J3ENCBL2M-A1-L _ = 2, 5, 10	2, 5, 10		
2 Encoder Cable (Opposite to Load-Side Lead) For HG-KN13, 23, 43, 73 (Direct Connection Type)	MR-J3ENCBL_M-A2-H _ = 2, 5, 10	2, 5, 10	IP65	
	MR-J3ENCBL_M-A2-L _ = 2, 5, 10	2, 5, 10		
3 Encoder Cable (Load-Side Lead) For HG-KN13, 23, 43, 73 (Junction Type) (*2)	MR-J3JCBL03M-A1-L	S	IP20	
4 Encoder Cable (Opposite to Load-Side Lead) For HG-KN13, 23, 43, 73 (Junction Type) (*2)	MR-J3JCBL03M-A2-L	S		
5 Encoder Cable For HG-KN (Junction Type) (*2)	MR-EKCBL_M-H _ = 20, 30, 40, 50	20, 30	IP20	
	MR-EKCBL_M-L _ = 20, 30	20, 30		





Item	Model	Stocked Lengths	Protection Level (*1)	Description
6 Encoder Connector Set For HG-KN (Junction Type)	MR-ECNM	S	IP20	
7 Encoder Cable (Load-Side Lead) For HG-KN (Junction Type) (*2)	MR-J3JSCBL03M-A1-L	S	IP65 (*4)	
8 Encoder Cable (Opposite to Load-Side Lead) For HG-KN (Junction Type) (*2) Use This In Combination With 9 or 10	MR-J3JSCBL03M-A2-L	S	IP65 (*4)	
9 Encoder Cable For HG-KN (Junction Type) For HG-SN (Direct Connection Type) (*2)	MR-J3ENSCBL_M-H _= 2, 5, 10, 20, 30, 40, 50	2, 5, 10, 20, 30	IP67	
	MR-J3ENSCBL_M-L _= 2, 5, 10, 20, 30	2, 5		
10 Encoder Cable For HG-SN52, 102, 152, 202~302	MR-J3ENSCBL_M-H _= 2, 5, 10, 20, 30, 40, 50	2, 5, 10, 20, 30		
	MR-J3ENSCBL_M-L _= 2, 5, 10, 20, 30	2, 5		
11 Encoder Connector Set (One-Touch Connection Type) For HG-KN (Junction Type) (*5) For HG-SN (Direct Connection Type) (Straight Type)	MR-J3SCNS	S	IP67	
12 Encoder Connector Set (One-Touch Connection Type) For HG-SN (Angle Type) (*5)	MR-J3SCNSA	S	IP67	
13 Power Cable (Load-Side Lead) For HG-KN13, 23, 43, 73 (Direct Connection Type) (*2)	MR-PWS1CBL_M-A1-H _= 2, 5, 10	2, 5, 10	IP65	
	MR-PWS1CBL_M-A1-L _= 2, 5, 10 (*6)	2, 5, 10		
14 Power Cable (Opposite to Load-Side Lead) For HG-KN13, 23, 43, 73 (Direct Connection Type)	MR-PWS1CBL_M-A2-H _= 2, 5, 10	2, 5, 10		
	MR-PWS1CBL_M-A2-L _= 2, 5, 10 (*6)	2, 5, 10		
15 Power Cable (Load-Side Lead) For HG-KN (Junction Type)	MR-PWS2CBL03M-A1-L	S	IP55	
16 Power Cable (Opposite to Load-Side Lead) For HG-KN (Junction Type) (*2)	MR-PWS2CBL03M-A2-L	S		
17 Power Cable For HG-SN52	MR-J3P2-_M	2, 5, 10, 20, 30	IP65	
	MR-J3PWS2-_M	2, 5, 10, 15, 20, 30	IP67	
18 Power Cable For HG-SN102, 152	MR-J3P2-_M	2, 5, 10, 20, 30	IP65	
	MR-J3PWS2-_M	2, 5, 10, 15, 20, 30	IP67	
19 Power Cable For HG-SN202~302	MR-J3P4-_M	2, 5, 10, 20, 30	IP65	
	MR-J3PWS4-_M	2, 5, 10, 15, 20, 30	IP67	

Item	Model	Stocked Lengths	Protection Level (*1)	Description
20	Power Connector Set For HG-SN52J, 102J, 152J. Wire Size: 2mm ² to 3.5mm ² (AWG 14 to 12) Cable OD: 10.5mm to 14.1mm	-	IP67	
21	Power Connector Set For HG-SN202J, 302J. Wire Size: 5.5mm ² to 8mm ² (AWG 10 to 8) Cable OD: 12.5mm to 16mm	-		
22	Electromagnetic Brake Cable (Load-Side Lead) For HG-KN13, 23, 43, 73, HG-SN202~302 (Direct Connection Type) Not Shielded (*2)	2, 5, 10	IP65	
		-		
23	Electromagnetic Brake Cable (Opposite to Load-Side Lead) For HG-KN13, 23, 43, 73, HG-SN202~302 (Direct Connection Type) Not Shielded (*2)	2, 5, 10		
		-		

Notes:

1. 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.
2. -H and -L indicate a bending life. -H indicates a long bending life, and -L indicates a standard bending life.
3. This encoder cable is available in four-wire type. Parameter setting is required to use the four-wire type encoder cable. Refer to "MR-JE-_A Servo Amplifier Instruction Manual" for details.
4. The encoder cable is rated IP65 while the junction connector itself is rated IP67.
5. Cable clamps and bushings for cable OD of 5.5 mm to 7.5 mm and of 7.0 mm to 9.0 mm are included in the set.
6. Shielded power cable MR-PWS3CBL_M-A_-L is also available. Contact your local sales office.

MR-JE Cables and Connectors (Refer to diagrams above)

Item	Model	Stocked Lengths	Protection Level (*1)	Description
24	Electromagnetic Brake Cable (Load-Side Lead) For HG-KN (Junction Type) Not Shielded	S	IP55	
25	Electromagnetic Brake Cable (Opposite to Load-Side Lead) For HG-KN (Junction Type) Not Shielded	S		
26	Electromagnetic Brake Connector Set (One-Touch Connection Type) For HG-SN (Straight Type). Wire size: 1.25mm ² (AWG 16) or Smaller. Cable OD: 9.0mm to 11.6mm	S	IP67	
27	Electromagnetic Brake Connector Set (One-Touch Connection Type) For HG-SN (Angle Type) Wire Size: 1.25mm ² (AWG 16) or smaller. Cable OD: 9.0mm to 11.6mm	S	IP67	 

Notes:

1. 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.
2. -H and -L indicate a bending life. -H indicates a long bending life, and -L indicates a standard bending life.
3. This encoder cable is available in four-wire type. Parameter setting is required to use the four-wire type encoder cable. Refer to "MR-JE-_A Servo Amplifier Instruction Manual" for details.
4. The encoder cable is rated IP65 while the junction connector itself is rated IP67.
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6. Shielded power cable MR-PWS3CBL_M-A_-L is also available. Contact your local sales office.