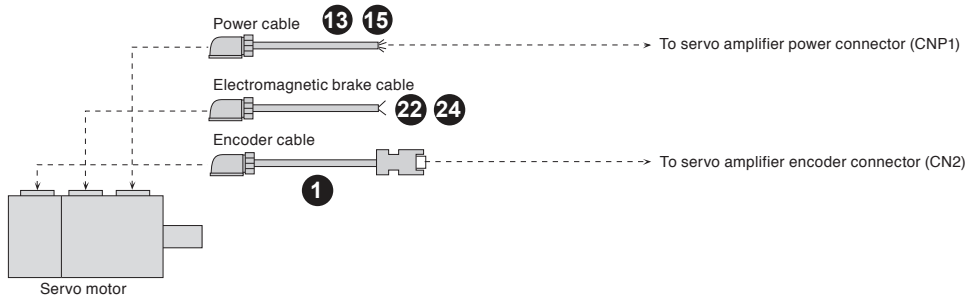
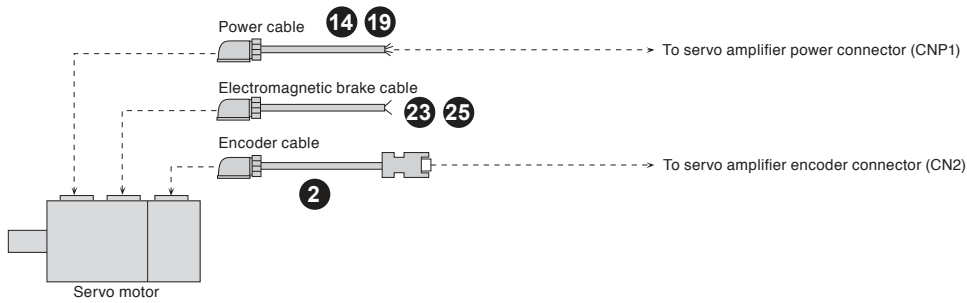


MR-JE Servo Cables and Connectors

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



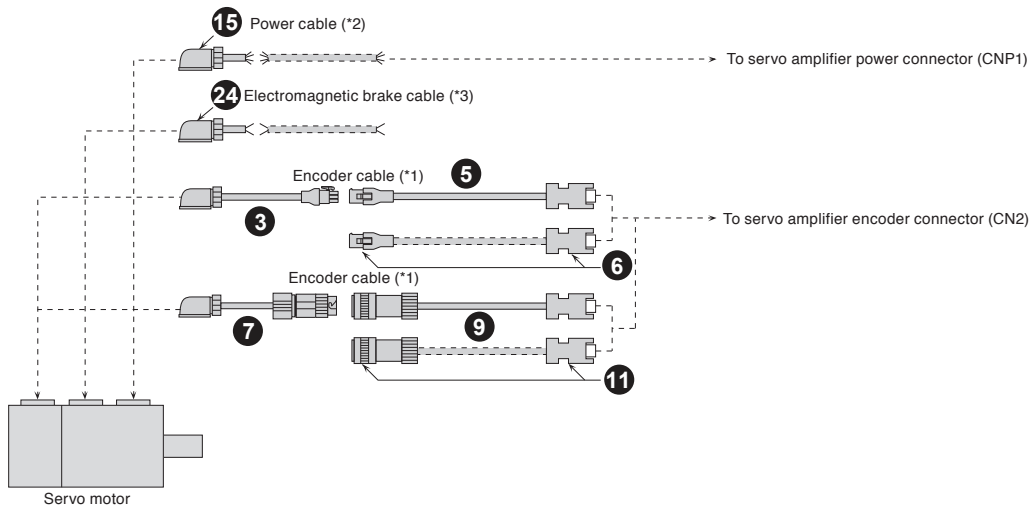
For leading the cables out in opposite direction of load side (*1)



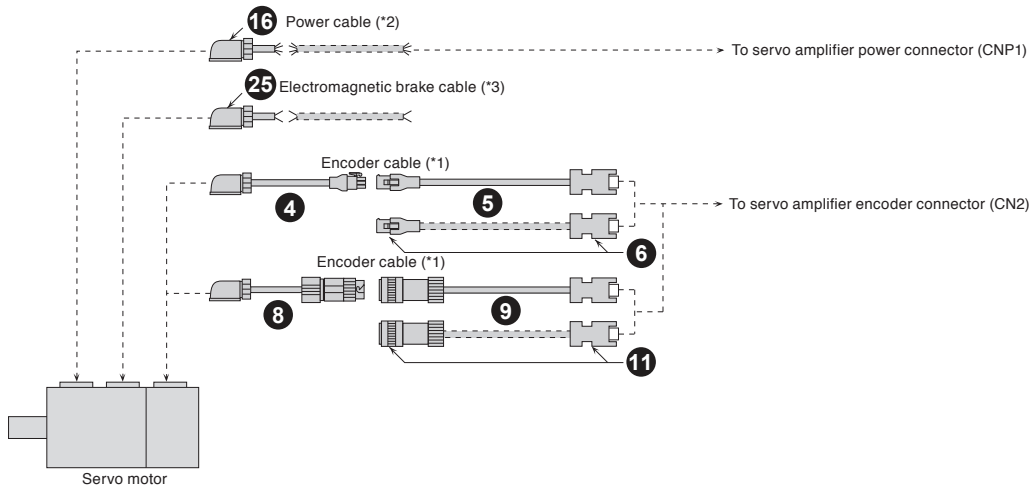
Note:

1. Cables for leading two different directions may be used for one Servo Motor.

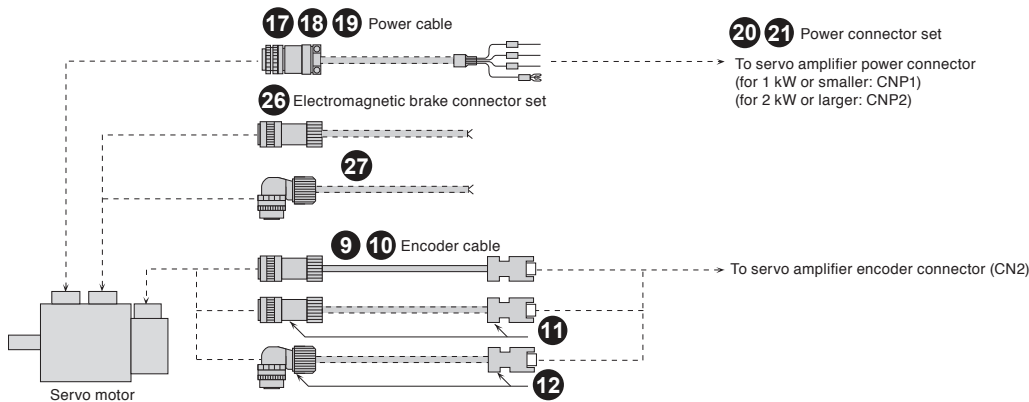
For HG-KN Servo Motor Series: Encoder Cable Length over 10m For Leading the Cables out in Direction of Load Side (*4)



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





























For HG-SN Servo Motor 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 Servo Motor.
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 Chart on Previous Page)

Figure Number	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 (L = 2, 5, 10)	2, 5, 10	IP65	 
		MR-J3ENCBL2M-A1-L (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 (L = 2, 5, 10)	2, 5, 10	IP65	 
		MR-J3ENCBL_M-A2-L (L = 2, 5, 10)	2, 5, 10		
3	Encoder Cable (Load-Side Lead) For HG-KN13, 23, 43, 73 (Junction Type) (*2)	MR-J3JCBLO3M-A1-L	S	IP20	 
4	Encoder Cable (Opposite to Load-Side Lead) For HG-KN13, 23, 43, 73 (Junction Type) (*2)	MR-J3JCBLO3M-A2-L	S		
5	Encoder Cable For HG-KN (Junction Type) (*2)	MR-EKCBL_M-H (L = 20, 30, 40, 50) (*3)	20, 30	IP20	 
		MR-EKCBL_M-L (L = 20, 30)	20, 30		
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-J3JSCBLO3M-A1-L	S	IP65 (*4)	
8	Encoder Cable (Opposite to Load-Side Lead) For HG-KN (Junction Type) (*2) Use This In Combination With Numbers 9 or 10	MR-J3JSCBLO3M-A2-L	S		
9	Encoder Cable For HG-KN (Junction Type) For HG-SN (Direct Connection Type) (*2)	MR-J3ENSCBL_M-H (L = 2, 5, 10, 20, 30, 40, 50)	2, 5, 10, 20, 30	IP67	
		MR-J3ENSCBL_M-L (L = 2, 5, 10, 20, 30)	2, 5		
10	Encoder Cable For HG-SN52, 102, 152, 202-302	MR-J3ENSCBL_M-H (L = 2, 5, 10, 20, 30, 40, 50) (*3)	2, 5, 10, 20, 30	IP67	
		MR-J3ENSCBL_M-L (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 (L = 2, 5, 10)	2, 5, 10	IP65	
		MR-PWS1CBL_M-A1-L (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 (L = 2, 5, 10)	2, 5, 10	IP65	
		MR-PWS1CBL_M-A2-L (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	
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	MR-PWCNS4	-	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	MR-PWCNS5	-		
22	Electromagnetic Brake Cable (Load-Side Lead) For HG-KN13, 23, 43, 73, (Direct Connection Type) (Not Shielded) High Flex (*2)	MR-BKS1CBL_M-A1-H (L = 2, 5, 10)	2, 5, 10	IP65	
	Electromagnetic Brake Cable (Load-Side Lead) For HG-KN13, 23, 43, 73, (Direct Connection Type) (Not Shielded) Standard Flex (*2)	MR-BKS1CBL_M-A1-L (L = 2, 5, 10)	-		
	Electromagnetic Brake Cable (Load-Side Lead) For HG-SN (Direct Connection Type) Standard Flex (*2)	MR-J3BK-_M	2, 5, 10, 15, 20, 30, 40, 50		
	Electromagnetic Brake Cable (Load-Side Lead) For HG-SN (Direct Connection Type) High Flex (Shielded) (*2)	MR-J3BRKS1-_M	2, 5, 10, 15, 20, 30, 40, 50		
23	Electromagnetic Brake Cable (Opposite to Load-Side Lead) For HG-KN13, 23, 43, 73, (*2)	MR-BKS1CBL_M-A2-H (L = 2, 5, 10)	2, 5, 10	IP65	
		MR-BKS1CBL2M-A2-L (L = 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 Chart on Previous Page)

Item	Model	Stocked Lengths	Protection Level (*1)	Description	
24	Electromagnetic Brake Cable (Load-Side Lead) For HG-KN (Junction Type) Not Shielded	MR-BKS2CBL03M-A1-L	S	IP55	
25	Electromagnetic Brake Cable (Opposite to Load-Side Lead) For HG-KN (Junction Type) Not Shielded	MR-BKS2CBL03M-A2-L			
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	MR-BKCNS1	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	MR-BKCNS1A	S	IP67	

Note 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.