





Encoder Cables and Connectors

Figure Number	Item	Model Number	Available Lengths	Stocked Lengths	Protection Level	Description	
1	Encoder Cable 10m or Shorter (Direct Connection Type) (*2)	Lead Out in Direction of Motor Shaft For HG-KR/HG-MR	MR-J3ENCBL_M-A1-H	2, 3, 5, 7, 8, 10	2, 3, 5, 10	IP65	Encoder connector Servo amplifier connector
		Lead Out in Opposite Direction of Motor Shaft For HG-KR/HG-MR	MR-J3ENCBL_M-A1-L	2, 5, 10	2, 5, 10	IP65	
2	Encoder Cable. (Junction Type) Use This In Combination With (5) or (7). (*2)	Lead Out in Direction of Motor Shaft For HG-KR/HG-MR	MR-J3JCBLO3M-A1-L	0.3	0.3	IP20	Encoder connector Junction connector
		Lead Out in Opposite Direction of Motor Shaft For HG-KR/HG-MR	MR-J3JCBLO3M-A2-L	0.3	0.3	IP20	
5	Encoder Cable. Use This In Combination With (3) or (4). (*2)	For HG-KR/HG-MR (Junction Type)	MR-EKCBL_M-H (*1, *3)	2, 5, 10, 15, 20, 30, 50	10, 20, 30, 50	IP20	Junction connector Servo amplifier connector
		For HG-KR/HG-MR (Junction Type)	MR-EKCBL_M-L (*1, *3)	2, 5, 10, 15, 20, 30	-	IP20	
7	Encoder Connector Set	For HG-KR/HG-MR (Junction Type) For Connecting Load-Side Encoder	MR-ECNM	-	S	IP20	
8	Exceeding 10m (Relay Type) Use this in Combination with (10) or (11). (*2)	For HG-KR/HG-MR (Junction Type)	MR-J3JSCBLO3M-A1-L (*1, *3)	3	3	IP65 (*4)	Encoder connector Junction connector
9	For HG-KR/HG-MR (Junction Type)	MR-J3JSCBLO3M-A2-L (*1)	3	3	IP65 (*4)		
10	Encoder Cable (*2) For HG-KR/HG-MR (Junction Type, in Combination with (8) or (9)) For HG-SR Family For HG-JR53, 73, 103, 153, 203, 353, 503, 703, 903, 534, 734, 1034, 1534, 2034, 3534, 5034, 7034, 9034 For HG-RR Family For HG-UR Family	For HG-SR Family For HG-RR Family For HG-UR Family For HG-JR53, 534, 73, 734, 103, 1034, 153, 1534, 203, 2034, 353, 3534, 503, 5034, 703, 7034, 903, 9034	MR-J3JSCBLO3M-A1-L (*1, *3)	3	3	IP65 (*4)	Junction connector or encoder connector Servo amplifier connector
		Encoder Cable (*2) For HG-JR601, 801, 12K1, 15K1, 20K1, 25K1, 30K1, 37K1, 701M, 11K1M, 15K1M, 22K1M, 30K1M, 37K1M, 6014, 8014, 12K14, 15K14, 20K14, 25K14, 30K14, 37K14, 701M4, 11K1M4, 15K1M4, 22K1M4, 30K1M4, 37K1M4, 45K1M4, 55K1M4	MR-J3JSCBLO3M-A2-L (*1)	3	3	IP65 (*4)	
		For HG-SR Family For HG-RR Family For HG-UR Family For HG-JR53, 534, 73, 734, 103, 1034, 153, 1534, 203, 2034, 353, 3534, 503, 5034, 703, 7034, 903, 9034	MR-J3ENS4CBL_M-H	50, 60, 70, 80, 90, 100	-	IP67	
		Encoder Cable (*2) For HG-JR601, 801, 12K1, 15K1, 20K1, 25K1, 30K1, 37K1, 701M, 11K1M, 15K1M, 22K1M, 30K1M, 37K1M, 6014, 8014, 12K14, 15K14, 20K14, 25K14, 30K14, 37K14, 701M4, 11K1M4, 15K1M4, 22K1M4, 30K1M4, 37K1M4, 45K1M4, 55K1M4	MR-ENE4CBL_M-H-MTH	50, 60, 70, 80, 90, 100	-	IP67	
11	Encoder Connector Set (*5) (One-touch Connection Type) For HG-KR/HG-MR (junction type) For HG-SR Family For HG-RR Family For HG-UR (Angle Type) Family For HG-JR53, 73, 103, 153, 203, 353, 503, 703, 903, 534, 734, 1034, 1534, 2034, 3534, 5034, 7034, 9034	MR-J3SCNS	-	S	IP67	Encoder Side Amplifier Side 	
12	Encoder Connector Set (*3, *5) (screw type) For HG-SR Family For HG-JR53, 73, 103, 153, 203, 353, 503, 703, 903, 534, 734, 1034, 1534, 2034, 3534, 5034, 7034, 9034/ For HG-RR Family For HG-UR (straight type) Family	MR-ENCNS2	-	S	IP67		
13	Encoder Connector Set (*5) (one-touch connection type) For HG-SR Family HG-JR53, 73, 103, 153, 203, 353, 503, 703, 903, 534, 734, 1034, 1534, 2034, 3534, 5034, 7034, 9034 For HG-RR Family For HG-UR (angle type) Family	MR-J3SCNSA	-	S	IP67		
14	Encoder Connector Set (*3, *5) (screw type) For HG-SR Family For HG-JR53, 73, 103, 153, 203, 353, 503, 703, 903, 534, 734, 1034, 1534, 2034, 3534, 5034, 7034, 9034 For HG-RR Family For HG-UR (angle type) Family	MR-ENCNS2A	-	S	IP67		

Notes:




- 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.
- H and -L indicate a bending life. -H indicates a long bending life, and -L indicates a standard bending life.
- This encoder cable is available in four-wire type. Parameter setting is required to use the four-wire type encoder cable. Refer to relevant Servo Amplifier Instruction Manual for details.
- The encoder cable is rated IP65 while the junction connector itself is rated IP67.
- Use MR-EKCBL_M-H and MR-ECNM to connect to an output cable for AT343A, AT543A-SC or AT545A-SC scales manufactured by Mitutoyo Corporation.

Motor Power Supply Cables

Figure Number	Item	Motor Model Number	Cable Number	Available Lengths	Stocked Lengths	Protection Level	Description
15	Standard-Flex, Unshielded Type Cables (Straight Type Connector Only)	HG-SR51(B), 52(B), 81(B), 102(B), 152(B), 524(B), 1024(B), 1524(B); HG-JR53(B), 534(B), 73(B), 734(B), 103(B), 1034(B), 153(B), 1534(B), 203(B), 2034(B), 3534(B) (*1)	MR-J3P2-_M	2, 3, 5, 10, 15, 20, 25, 30, 40, 50	2, 5, 10, 15, 20, 30	IP65	
		HG-SR121(B), 201(B), 202(B), 301(B), 352(B), 3524(B) HG-JR353(B), HG-SR2024(B)	MR-J3P4-_M	2, 5, 10, 15, 20, 25, 30, 40, 50, 100	2, 5, 10, 15, 20, 30		
		HG-SR421(B), 702(B), 7024(B); HG-JR601(B), 6014(B), 701M(B), 701M4(B), 703(B), 7034(B) (*1)	MR-J3P7-_M	2, 5, 7, 10, 15, 20, 25, 30, 50	2, 5, 10, 20, 30		
		HG-SR502(B), 5024(B) HG-JR503(B)	MR-J3P10-_M	2, 5, 10, 15, 20, 25, 30	5, 10		
		HG-JR5034(B)	MR-J3P11-_M	2, 5, 10, 15, 20, 25, 30, 50	5, 10		
		HG-JR801(B), 8014(B), 903(B), 9034(B), 11K1M(B), 11K1M4(B), 12K1(B), 12K14(B), 15K1M(B), 15K1M4(B) (*1)	MR-J3P12-_M	2, 5, 10, 15, 20, 25, 30, 50	-		
		HG-RR103, 153, 203; HG-UR72, 152	MR-J3HC3S-_M	2, 5, 10, 15, 20, 25, 30	2, 5, 10, 20, 30		
		HG-RR103B, 153B, 203B; HG-UR72B, 152B	MR-J3HC3SB-_M	2, 5, 10, 15, 20, 25, 30	2, 5, 10, 20, 30		
		HG-RR353, 503; HG-UR352, 502	MR-J3HC5S-_M	2, 5, 10, 15, 20, 25, 30	2, 5, 10, 20, 30		
		HG-RR353B, 503B; HG-UR352B, 502B	MR-J3HC5SB-_M	2, 5, 10, 15, 20, 25, 30	2, 5, 10, 20, 30		
15	High-Flex, Shielded Type Cables (Straight Type Connector Only) (*2)	HG-SR51(B), 52(B), 81(B), 102(B), 152(B), 524(B), 1024(B), 1524(B); HG-JR53(B), 534(B), 73(B), 734(B), 103(B), 1034(B), 153(B), 1534(B), 203(B), 2034(B), 3534(B) (*1)	MR-J3PWS2-_M	2, 5, 10, 15, 17, 20, 25, 30, 40	2, 5, 10, 15, 20, 30	IP67	
		HG-SR121(B), 201(B), 202(B), 301(B), 352(B), 3524(B) HG-JR353(B), HG-SR2024(B)	MR-J3PWS4-_M	2, 5, 10, 15, 20, 25, 30, 40, 50	2, 5, 10, 20, 30		
		HG-SR421(B), 702(B), 7024(B); HG-JR601(B), 6014(B), 701M(B), 701M4(B), 703(B), 7034(B) (*1)	MR-J3PWS7-_M	2, 5, 10, 15, 20, 25, 30, 40, 50	5, 10, 15, 20, 30		
		HG-SR502(B), 5024(B) HG-JR503(B)	MR-J3PWS10-_M	2, 5, 10, 15, 20, 25, 30	2, 5, 10, 30		
		HG-JR5034(B)	MR-J3PWS11-_M	2, 5, 10, 15, 20, 25, 30, 50	5, 10, 20, 30		
		HG-JR801(B), 8014(B), 903(B), 9034(B), 11K1M(B), 11K1M4(B), 12K1(B), 12K14(B), 15K1M(B), 15K1M4(B) (*1)	MR-J3PWS12-_M	2, 5, 10, 15, 20, 25, 30	-		
		HG-RR103, 153, 203; HG-UR72, 152	MR-J3HC3S-SH-_M	2, 5, 10, 15, 20, 25, 30	2, 5, 10, 20, 30		
		HG-RR103B, 153B, 203B; HG-UR72B, 152B	MR-J3HC3SB-SH-_M	2, 5, 10, 15, 20, 25, 30	2, 5, 10, 15, 20, 25, 30		
		HG-RR353, 503; HG-UR352, 502	MR-J3HC5S-SH-_M	2, 5, 10, 15, 20, 25, 30	2, 5, 10, 20, 30		
		HG-RR353B, 503B; HG-UR352B, 502B	MR-J3HC5SB-SH-_M	2, 5, 10, 15, 20, 25, 30	2, 5, 10, 20, 30		
16	CN2 Connector Only		MR-J3CN2	-	S	IP67	
16	Encoder Connector Set	HG-JR601(4), 801(4), 12K1(4), 15K1(4), 20K1(4), 25K1(4), 30K1(4), 37K1(4), 701M(4), 11K1M(4), 15K1M(4), 22K1M(4), 30K1M(4), 37K1M(4), 45K1M4, 55K1M4	MR-ENECS	-	S	IP67	

Note 1: Must order separate brake cable for these motors.

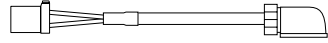
Motor Power Supply Cables

Figure Number	Item	Model Number	Available Lengths	Stocked Lengths	Protection Level (*1)	Description
17	Power Supply Cable For HG-KR/HG-MR. Lead Out In Direction Of Motor Shaft (Non-Shielded) (*2)	MR-PWS1CBL_M-A1-H (*1)	2, 3, 5, 7, 8, 10	2, 3, 5, 10	IP65	
		MR-PWS1CBL_M-A1-L (*1)	2, 3, 5, 10	2, 5, 10	IP65	
18	Power Supply Cable for HG-MR / HG-KR Series Motor, Lead Out in Direction of Motor Shaft (Shielded)	MR-J3PS_M-A1	0.3, 5, 10	0.3, 5	IP65	
		MR-J3PS_M-A2	0.3, 5, 10	0.3, 5, 10	IP65	
		MR-PWS1CBL_M-A2-H (*1)	1, 2, 5, 5, 10, 15	1, 2, 5, 5, 10	IP65	
		MR-PWS1CBL_M-A2-L (*1)	1, 2, 5, 10	2, 5, 10	IP65	
19	Power Supply Cable For HG-KR/HG-MR (Junction Type) Motor Lead Out In Direction Of Motor Shaft (Non-Shielded) (*2)	MR-PWS2CBL03M-A1-L	0.3	0.3	IP55	
20		MR-PWS2CBL03M-A2-L	0.3	0.3	IP55	
21	Power Connector Set For HG-SR51, 81, 52, 102, 152, 524, 1024, 1524 HG-JR53, 73, 103, 153, 203, 534, 734, 1034, 1534, 2034, 3534, 5034	MR-PWCNS4	-	S	IP67	
22	Power Connector Set For HG-SR121, 201, 301, 202, 352, 502, 2024, 3524, 5024 HG-JR353, 503	MR-PWCNS5	-	S	IP67	
23	Power Connector Set For HG-SR421, 702, 7024/HG-JR703, 903, 601, 801, 12K1, 701M, 11K1M, 15K1M, 7034, 9034, 6014, 8014, 12K14, 701M4, 11K1M4, 15K1M4/TM-RFM240J10	MR-PWCNS3	-	S	IP67	
	Power Connector Set For HG-UR202, 352, 502 HG-RR353, 503	MR-PWCNS2	-	S	IP67	
	Power Connector Set For HG-UR72, 152 HG-RR103, 153, 203	MR-PWCNS1	-	S	IP67	

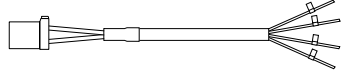
Notes:

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

Motor Power Cable for HG-KR/HG-MR Rotary Servo Motor Series to MR-J4W2/MR-J4W3 (Direct Connection Type)



Figure Number	Item	Model Number	Available Lengths	Stocked Lengths	Description
24	Lead Out in Direction of Motor Shaft Standard Bending Life	SC-EPWS1CBL_M-A1-L	2, 5	5	
25	Lead Out in Opposite Direction of Motor Shaft Standard Bending Life	SC-EPWS1CBL_M-A2-L	2, 5	2, 5	
26	Lead Out in Direction of Motor Shaft Long Bending Life	SC-EPWS1CBL_M-A1-H	2, 5	2, 5	
27	Lead out in Opposite Direction of Motor Shaft Long Bending Life	SC-EPWS1CBL_M-A2-H	2, 5	2, 5	

Motor Power Cable for HG-SR/HG-JR/HG-UR Rotary Servo Motor Series to MR-J4W2/MR-J4W3

Figure Number	Item	Model Number (*1)	Available Lengths	Stocked Lengths	Description
28	Standard Bending Life	SC-EPWS2CBL_M-L	2, 5, 10, 20, 30	5, 10	
29	Long Bending Life	SC-EPWS2CBL_M-H	2, 5, 10, 20, 30	5, 10	

Note 1. A separate motor-side power supply connector is required.



Motor Brake Cables for HG-KR/HG-MR Rotary Servo Motors

Figure Number	Item	Model Number	Available Lengths	Stocked Lengths	Protection Level (*1)	Description	
30	Brake Cable for HG-KR/HG-MR Series 10m or Shorter (Direct Connection Type)	Lead Out in Direction of Motor Shaft	MR-BKS1CBL_M-A1-H (*1)	2, 5, 7, 10	2, 5, 10		
		Lead Out in Opposite Direction of Motor Shaft	MR-BKS1CBL_M-A1-L (*1)	2, 5, 10	-		IP65
31	Brake Cable for HG-KR/HG-MR Series Exceeding 10m (Relay Type) (*2)	Lead Out in Direction of Motor Shaft	MR-BKS1CBL_M-A2-H (*1)	2, 5, 10	2, 5, 10		IP65
		Lead Out in Opposite Direction of Motor Shaft	MR-BKS1CBL_M-A2-L (*1)	2, 5, 10	-		
32	Brake Cable for HG-KR/HG-MR Series Exceeding 10m (Relay Type) (*2)	MR-BKS2CBL03M-A1-L (*1)	0.3	0.3	IP55		
33	Brake Cable for HG-KR/HG-MR Series Exceeding 10m (Relay Type) (*2)	MR-BKS2CBL03M-A2-L (*1)	0.3	0.3	IP55		




Notes:

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

Brake Cables for HG-SR/JR/RR/UR Servo Motor Series


Figure Number	Item	Model Number	Available Lengths	Stocked Lengths	Protection Level	Description	
34	Standard-Flex, Unshielded	HG-SR(4)B, HG-JR(4)B 3000 RPM	MR-J3BK-_M	2, 3.5, 5, 10, 15, 20, 25, 30, 40, 50	2, 5, 10, 20, 30	IP67	
		HG-JR601(4)B, 804(4)B, 12K1(4)B, 701M(4)B, 11K1M(4)B, 15K1M(4)B, HG-UR202B, 352B, 502B	MR-J3HCBKS-_M	2, 5, 10, 15, 20, 25, 30	5, 10, 20	IP65	
	High-Flex, Shielded	HG-SR(4)B, HG-JR(4)B 3000 RPM	MR-J3BRKS1-_M	2, 5, 10, 15, 20, 25, 30, 40, 50	2, 5, 10, 15, 20, 30	IP67	
		HG-JR601(4)B, 804(4)B, 12K1(4)B, 701M(4)B, 11K1M(4)B, 15K1M(4)B, HG-UR202B, 352B, 502B	MR-J3HCBKS-SH-_M	2, 5, 10, 15, 20, 25, 30, 50	-	IP65	

Brake Connector Set

Figure Number	Item	Model Number	Stocked Item	Protection Level (*1)	Description
35	Electromagnetic Brake Connector Set (One-Touch Connection, Straight) For HG-SR(4)B and HG-JR53(4)B, 73(4)B, 103(4)B, 153(4)B, 203(4)B, 353(4)B, 503(4)B, 703(4)B, 903(4)B	MR-BKCNS1	S	IP67	
36	Electromagnetic Brake Connector Set (Screw Connection, Straight) For HG-SR(4)B and HG-JR53(4)B, 73(4)B, 103(4)B, 153(4)B, 203(4)B, 353(4)B, 503(4)B, 703(4)B, 903(4)B	MR-BKCNS2	S	IP67	
37	Electromagnetic Brake Connector Set (One-Touch Connection, Angled) For HG-SR(4)B and HG-JR53(4)B, 73(4)B, 103(4)B, 153(4)B, 203(4)B, 353(4)B, 503(4)B, 703(4)B, 903(4)B	MR-BKCNS1A	S	IP67	
38	Electromagnetic Brake Connector Set (Screw Connection, Angled) For HG-SR(4)B and HG-JR53(4)B, 73(4)B, 103(4)B, 153(4)B, 203(4)B, 353(4)B, 503(4)B, 703(4)B, 903(4)B	MR-BKCNS2A	S	IP67	
39	Electromagnetic Brake Connector Set (Straight Type) For HG-JR601(4)B, 801(4)B, 12K1(4)B, 701M(4)B, 11K1M(4)B, 15K1M(4)B, HG-UR202B, 352B, 502B	MR-BKCN	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, the overall IP rating depends on the lowest of all.

Cooling Fan Power Connector Set

Figure Number	Item	Model Number	Stocked Item	Protection Level (*1)	Description
40	Cooling Fan Power Connector Set for HG-JR15K1(4), 20K1(4), 25K1(4), 30K1(4), 37K1(4), 22K1M(4), 30K1M(4), 38K1M(4), 45K1M4, 55K1M4	MR-PWCNF	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.