Specification
for
General purpose AC Servo
Long Bending life
Electromagnetic brake cable

Type SC-BKC1JCBL□M-■-H

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

Revision Drawn Check Design Approved

A 31 Mar.,2017

Send to Date Dwg

26 Apr.,2016

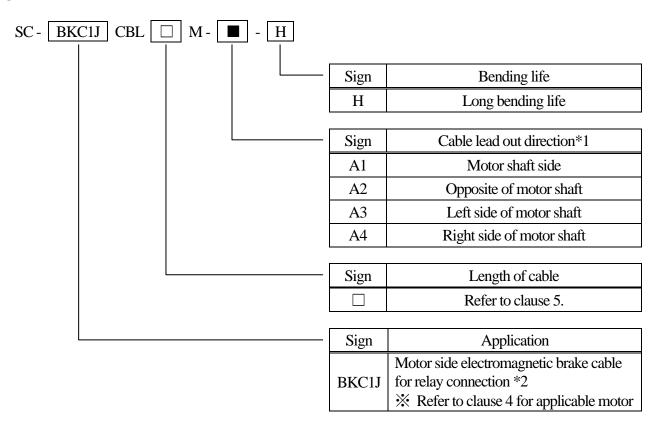
Order X903703D50052-G20A

1. SCOPE

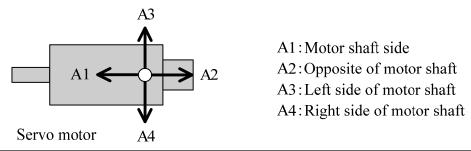
This specification covers the requirements for the General purpose AC Servo Long Bending Life Electromagnetic brake cable.

- SC-BKC1JCBL□M-■-H
- * The Products covered in this specification don't include the toxic substances in RoHS (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB).
- Wiring Harnesses Traceability program provides traceability for this cable.

2. CABLE TYPE



*1 Cable lead out direction (View from cable insertion direction)



(Note) Depending on the situation such as installation environment or combination of cables and connectors, there is a chance not to complete installation. (Even though it's mentioned above) Please make sure the cable lead out direction before your purchase.

^{*2} Please use it with power supply side electromagnetic brake cable.

Refer to clause 6 for confirming the combination and cable length.

3. APPLICABLE STANDARDS

UL758 AWM STYLE 2586 (wire part)

4. APPLICABLE SERVO MOTOR

HG-SR series motor HG-JR53B, 73B, 103B, 153B, 203B, 353B, 503B, 703B, 903B, 534B, 734B, 1034B, 1534B, 2034B, 3534B, 5034B, 7034B, 9034B motor

HF-SP series motor HF-JP53B, 73B, 103B, 153B, 203B, 353B, 503B, 703B, 903B, 534B, 734B, 1034B, 1534B, 2034B, 3534B, 5034B, 7034B, 9034B motor

5. LENGTH OF CABLE

1 to 49m Specified by 1m unit

6. CABLE LENGTH FOR RELAY CONNECTION

	Total cable length		
Power supply side		Motor side Total cable I	
SC-BKC1CBL□M-L	20m on less	SC-BKC1JCBL□M-■-H	50m or less
SC-BKC1CBL□M-H	30m or less		

7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-BKC1JCBL \square M- \blacksquare -H $\times \times \times \times \times \times \times$

- % \square is a figure from 1 to 49.
- is cable lead out direction from A1, A2, A3, A4.

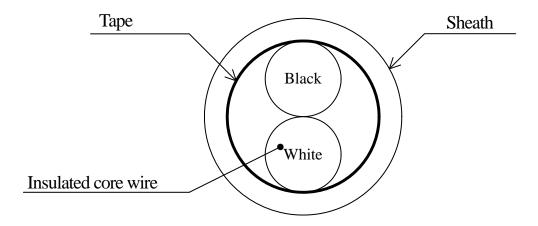
8. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification	
Structure		_	AWG16×2C	
Conductor size		ze	_	AWG16
Conductor	Outer diameter		mm	Approx. 1.75
Ingulation	Material		_	ETFE
Insulation	Outer diameter		mm	Approx. 2.55
Stranding	Number of insulation core wire		_	2C
Sheath	Material		_	Flame resisting PVC
Sneath	Color		_	Black
Overall diameter		mm	Approx. 7.2	
Electrical	Insulation resistance		$M\Omega$ · km	Over 100
characteristics	Withstand voltage		V for1minute	AC500
Operating temperature range		$^{\circ}\!\mathrm{C}$	-10~+60 (without condensation)	
Minimum Bend Radius		mm	6 times the overall diameter	
Bending Performance			_	Over 1 million times *1 (Bend radius 45mm)
Flame Retardant			_	UL1581 VW-1
Connector	Power supply side	Туре	DDK Ltd. CM10-CR2P-M (Cable receptacle) or CMV1-CR2P-M2 (Cable receptacle)	
		IP rating	IP67*2	
	Motor side	Туре	DDK Ltd. CM10-AP2S-M (D6) (Angle plug) or CMV1-AP2S-M2 (Angle plug)	
		IP rating	IP67*2	

^{*1} This is only the test result, not a guaranteed value. (The performance would change depending on customer's situation)

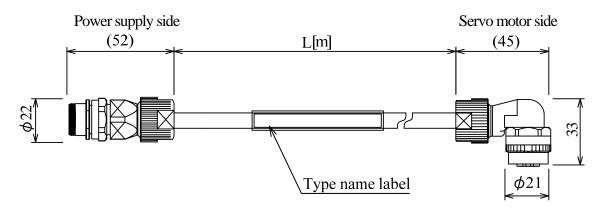
^{*2} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

9. STRUCTURAL DRAWING)I.



10. OUTLINE DRAWING

[Unit:mm]



11. SYSTEM CONFIGURATION DIAGRAM

