Specification for General purpose AC Servo Ultra Long Bending Life Electromagnetic brake cable

Type SC-BKS1JCBL□M-■-S

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

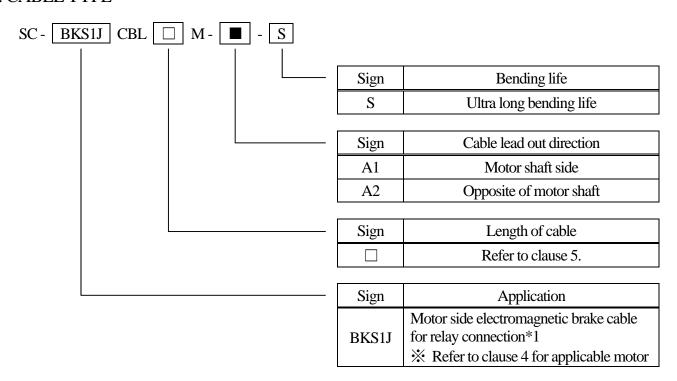
Note Revision Design Check Approved Drawn 14 July ,2017 A 5 Kasahara & Februshim n. Ishii S. Hariya 13 Nov.,2017 B Send to Date Dwg 26 Apr.,2016 Order X903703D50052-G22B

1. SCOPE

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

- ·SC-BKS1JCBL□M-■-S
- * 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 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 20921 (wire part)

4. APPLICABLE SERVO MOTOR

HG-KR, HG-MR series motor HF-KN, HF-KP, HF-MP series motor

5. LENGTH OF CABLE

1 to 10m specified by 1m unit

6. CABLE LENGTH FOR RELAY CONNECTION

Combination					
Power supply side		Motor side		length	
SC-BKC1CBL□M-L	20m on loss	SC-BKS1JCBL□M-■-S	10m on loss	10m on loss	
SC-BKC1CBL□M-H	30m or less	SC-BKS1JCBL□IVI-■-S	10m or less	40m or less	

7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-BKS1JCBL \square M- \blacksquare -S $\times \times \times \times \times \times \times$

- % \square is a figure from 1 to 10.
- % is cable lead out direction from A1, A2.

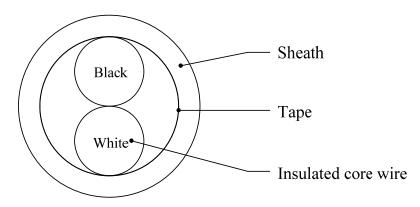
8. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification		
Structure		_	AWG22×2C		
Conductor	Conductor size		_	AWG22	
Conductor	Outer diameter		mm	Approx. 0.83	
Material Material			_	ETFE	
Insulation	Outer diameter		mm	Approx. 1.23	
Stranding	Number of insulation core wire		_	2C	
l Sheath ⊢	Material		_	High Elastic PVC	
	Color		_	Black	
Overall diameter		mm	Approx. 4.6		
Electrical Insulation re characteristics Withstand v		istance	MΩ·km	Over 1000	
		ltage	V for1minute	AC500	
Operating temperature range		$^{\circ}\!\mathbb{C}$	-10~+60 (without condensation)		
Minimum Bend Radius		mm	6 times the overall diameter		
Bending life			Over 10 million times*1 (Bend radius : Minimum bend radius)		
Flame Retardant		_	UL1581 VW-1		
Connector	Power supply side	Туре	DDK Ltd. CM10-CR2P-S (Cable receptacle) or CMV1-CR2P-S (Cable receptacle)		
		IP rating	IP67* ²		
	Motor side	Type	Japan Aviation Electronics Industry, Limited JN4FT02SJ1-R (Angle plug)		
		IP rating	IP65*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



10. OUTLINE DRAWING

Power supply side

Servo motor side

L[m]

Type name label

11. SYSTEM CONFIGURATION DIAGRAM

