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

Type SC-BKS1JCBL □M-■-H

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

Revision Drawn Check Design Approved

A 14 July ,2017

Send to Date Dwg

22 Apr.,2016

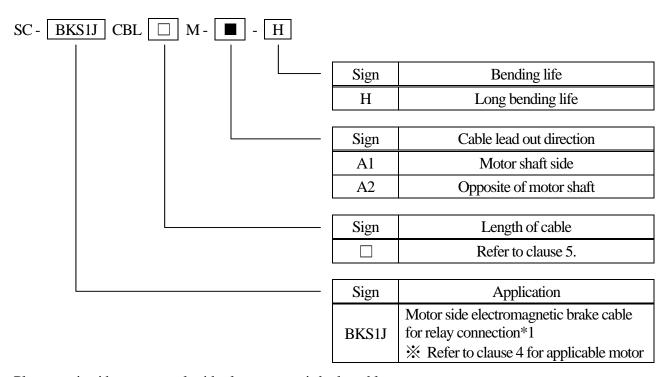
Order X903703D50052-G16A

1. SCOPE

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

- ·SC-BKS1JCBL□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 Please use it with power supply side electromagnetic brake cable. Refer to clause 6 for confirming the combination and cable length.

3. APPLICABLE STANDARDS

UL13 PLCC CL3X (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

Motortypanama	Comb	Total cable	
Motor type name	Power supply side	Motor side	length
HG-KR/MR	SC-BKC1CBL□M-L(*1)	SC DVS1ICDI M II (*2)	40m or less
HF-KN/KP/MP	SC-BKC1CBL□M-H (*1)	SC-BKS1JCBL \square M- \blacksquare -H (*2)	

^{*1} Please use 30m or less cable at power supply side.

7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-	BKS1JCBL□M-■-H ××××××
*	\square is a figure from 1 to 10.
*	■ is cable lead out direction from A1, A2.
*	$\times \times \times \times \times \times \times$ are the serial number for seven digits.

^{*2} Please use 10m or less cable at motor side.

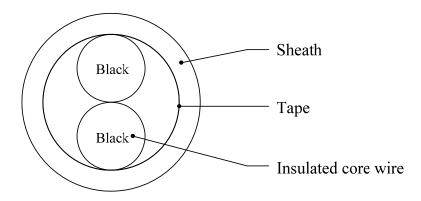
8. STRUCTURE AND CHARACTERISTICS

Item			Unit	Specification	
Structure			_	AWG20×2C	
Canalastan	Conductor size		_	AWG20	
Conductor	Outer diameter		mm	Approx. 0.97	
To see leading or	Material		_	ETFE	
Insulation	Outer diameter		mm	Approx. 1.37	
Stranding Number of insulation core wire		_	2C		
Sheath	Material		_	Flame resisting PVC	
	Color		_	Black	
Overall diameter			mm	Approx. 4.5	
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 life			_	Over 1 million times*1 (Bend radius: 6 times the overall diameter)	
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	\ 1 /	
	Motor side	Type	Japan Aviation Electronics Industry, Limited JN4FT02SJ1-R (Angle plug)		
		IP rating	IP65*2		

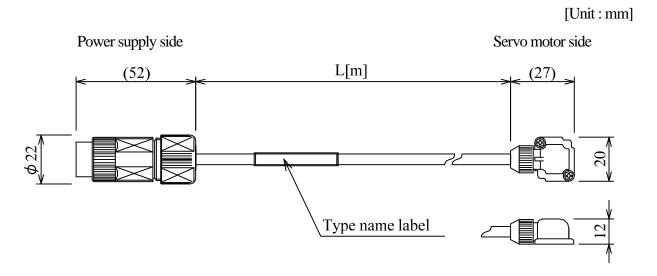
^{*1} It is a test outcome, and not a guaranteed value. (The performance is different according to customer's environment.)

^{*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



11. SYSTEM CONFIGURATION DIAGRAM

