

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

Type SC-BKS4JCBL□M-■-S

mitsubishi electric
SYSTEM & SERVICE CO.,LTD

Note

Revision				Drawn	Check	Design	Approved
A	14 Nov.,2017			<i>N. Ishii</i>	<i>S. Karuya</i>	<i>S. Kawahara</i>	<i>D. Tsubouchi</i>
Send to				Date		Dwg	
				26 Apr.,2016		X903703D50052-G23A	
				Order			

1. SCOPE

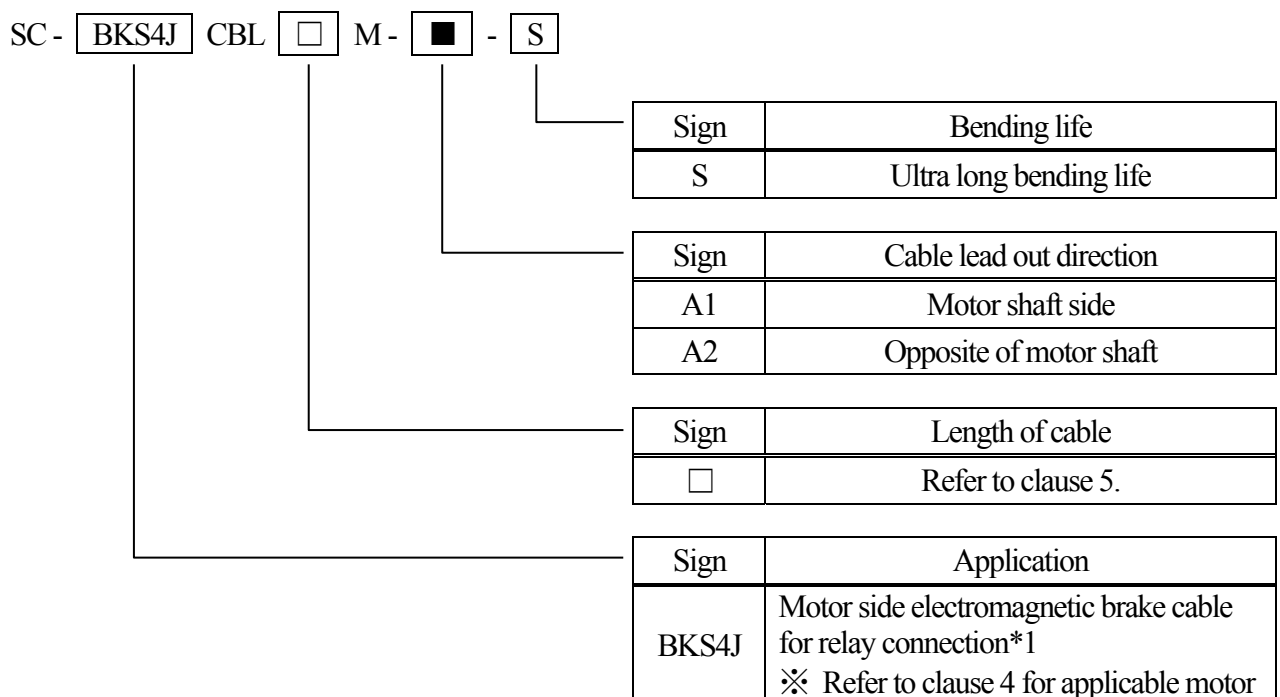
This specification covers the requirements for the General purpose AC Servo Ultra Long Bending Life Electromagnetic brake cable.

• SC-BKS4JCBL□M-■-S

※ The Products covered in this specification don't include the toxic substances in RoHS (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB).

※ UL's 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.

(Note) This cable doesn't have clamps for fixture. Please use cable ties or alternatives which can fix cable part; otherwise it might put too much stress on cables and cause disconnection.

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			Total cable length
Power supply side	Motor side		
SC-BKS4CBL□M-LL SC-BKS4CBL□M-LH	SC-BKS4JCBL□M-■-S	10m or less	50m or less

7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-BKS4JCBL□M-■-S ×××××××

- ※ □ is a figure from 1 to 10.
- ※ ■ is cable lead out direction from A1, A2.
- ※ ××××××× are the serial number for seven digits.

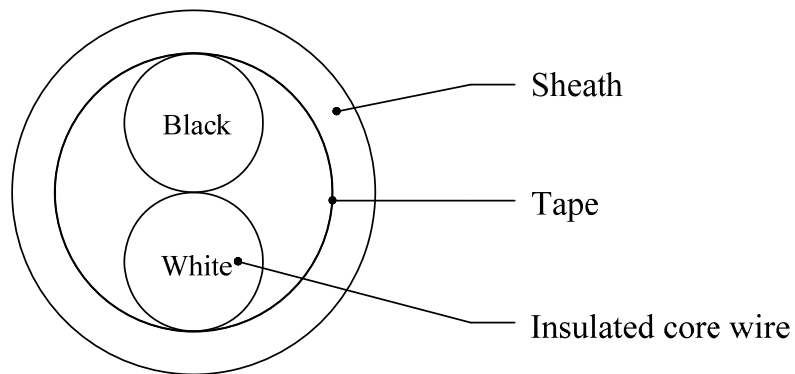
8. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification
Structure		—	AWG22×2C
Conductor	Conductor size	—	AWG22
	Outer diameter	mm	Approx. 0.83
Insulation	Material	—	ETFE
	Outer diameter	mm	Approx. 1.23
Stranding	Number of insulation core wire	—	2C
Sheath	Material	—	High Elastic PVC
	Color	—	Black
Overall diameter		mm	Approx. 4.6
Electrical characteristics	Insulation resistance	MΩ · km	Over 1000
	Withstand voltage	V for 1 minute	AC500
Operating temperature range		°C	-10~+60 (without condensation)
Minimum Bend Radius		mm	6 times the overall diameter
Flame Retardant		—	UL1581 VW-1
Bending life		—	Over 10 million times * ¹ (Bend radius: Minimum bend radius)
Connector	Power supply side	Type	Molex 5557-02R-210 (Receptacle housing)
		IP rating	IP20* 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)

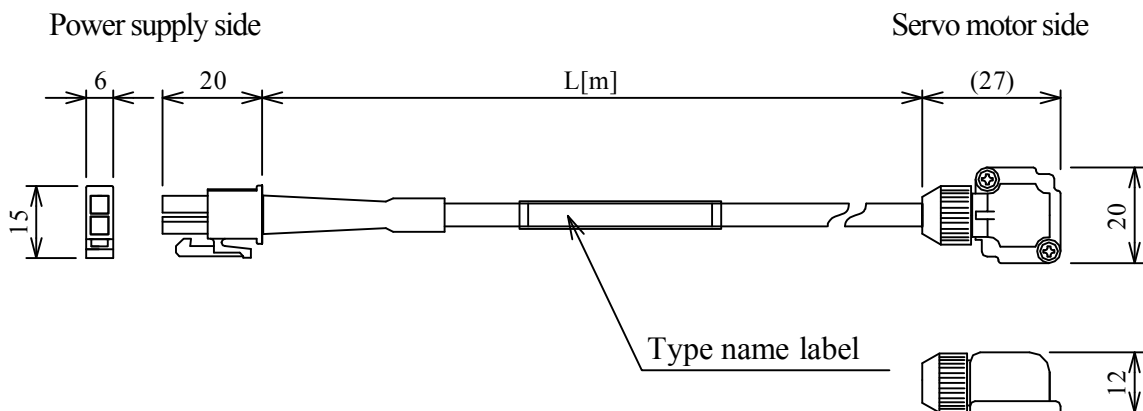
*2 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

9. STRUCTURAL DRAWING



10. OUTLINE DRAWING

[Unit : mm]



11. SYSTEM CONFIGURATION DIAGRAM

