

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

Type SC-BKS4JCBL □ M- ■ -H

MITSUBISHI ELECTRIC
SYSTEM & SERVICE CO.,LTD

Note

Revision								Drawn	Check	Design	Approved
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Send to								Date		Dwg	
								26 Apr.,2016		X903703D50052-G18	
								Order			

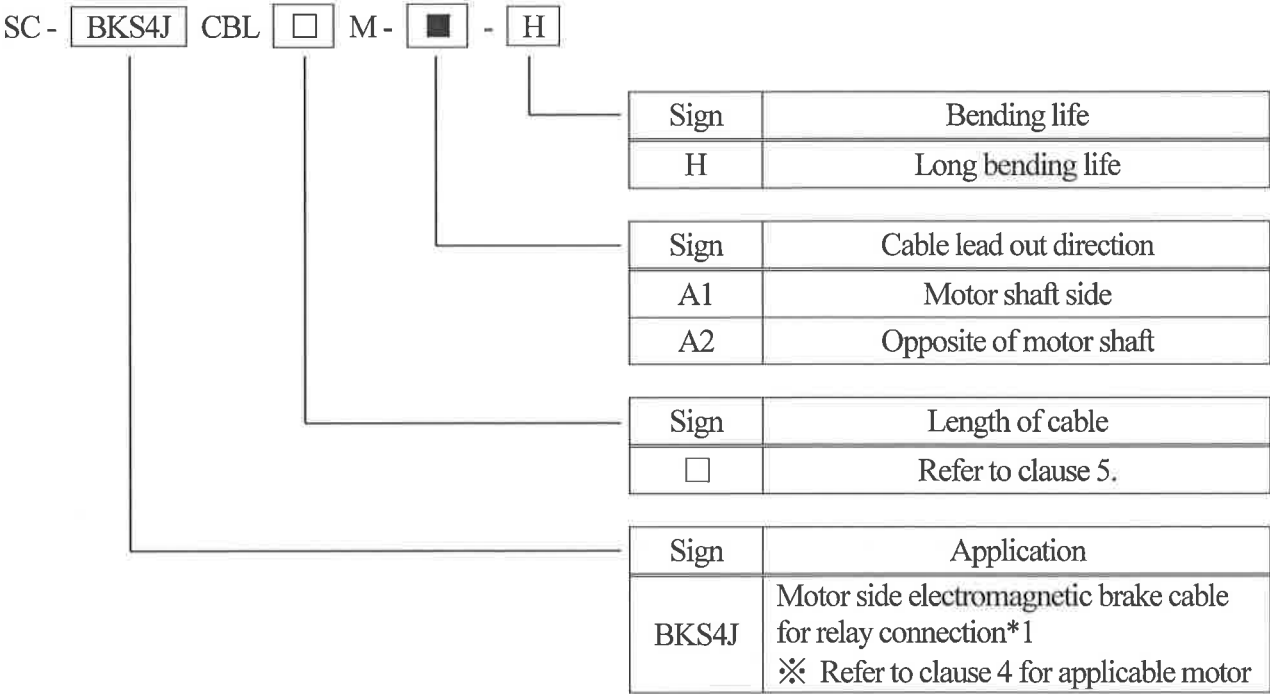
1. SCOPE

This specification covers the requirements for the General purpose AC Servo Long Bending Life Electromagnetic brake cable type SC-BKS4JCBL□M-■-H.

※ 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

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

Combination		Total cable length
Amplifier side	Motor side	
SC-BKS4CBL□M-LL SC-BKS4CBL□M-LH	SC-BKS4JCBL□M-■-H	10m or less 50m or less

7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-BKS4JCBL□M-■-H ×××××××

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

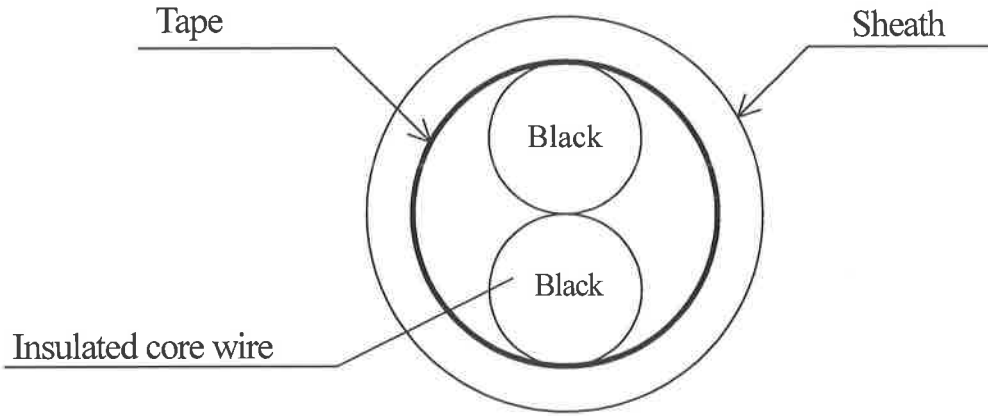
8. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification
Structure		—	AWG20×2C
Conductor	Conductor size	—	AWG20
	Outer diameter	mm	Approx. 0.97
Insulation	Material	—	ETFE
	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 characteristics	Insulation resistance	MΩ · km	Over 100
	Withstand voltage	V for 1 minute	AC500
Operating temperature range		°C	-10~+60 (without condensation)
Minimum Bend Radius		mm	Over 30
Bending Performance		—	Over 1 million times *1 (Bend radius 30mm)
Flame Retardant		—	UL1581 VW-1
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)

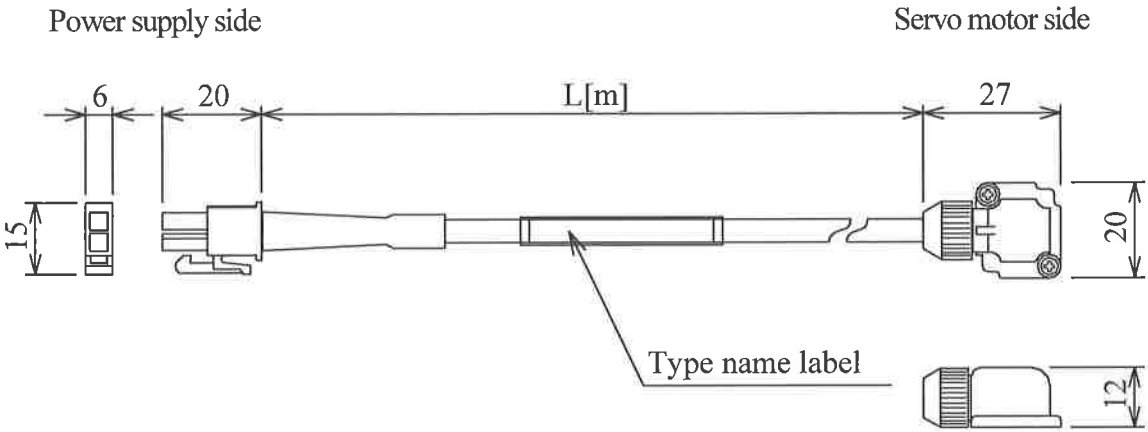
*2 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

9. STRUCTURAL DRAWING



10. OUTLINE DRAWING

[Unit : mm]



11. SYSTEM CONFIGURATION DIAGRAM

