

**Specification**  
**for**  
**General purpose AC Servo**  
**Electromagnetic brake cable**  
  
**Type SC-BKC1JCBL□M-L**

**MITSUBISHI ELECTRIC**  
**SYSTEM & SERVICE CO.,LTD**

Note

Revision				Drawn	Check	Design	Approved
A	31 Mar.,2017			<i>S. Karahara</i>	<i>S. Kariya</i>	<i>M. Aizumura</i>	<i>T. Tsuboshima</i>
Send to				Date		Dwg	
				26 Apr.,2016		X903703D50052-G09A	
				Order			

### 1. SCOPE

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

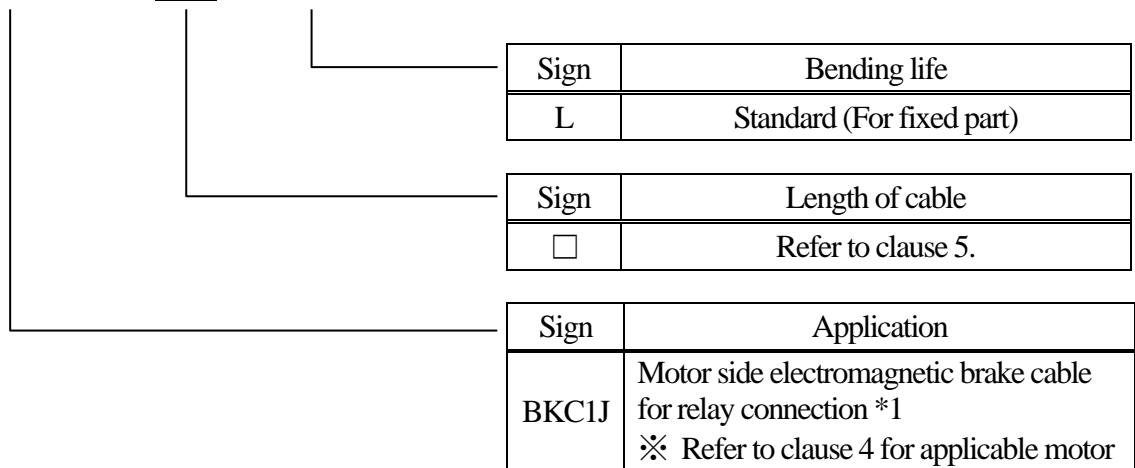
- SC-BKC1J CBL  M-L

※ 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

SC -  BKC1J CBL  M -  L



\*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 2517 (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

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

## 7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-BKC1JCBL□M-L ×××××××

※ □ is a figure from 1 to 49.

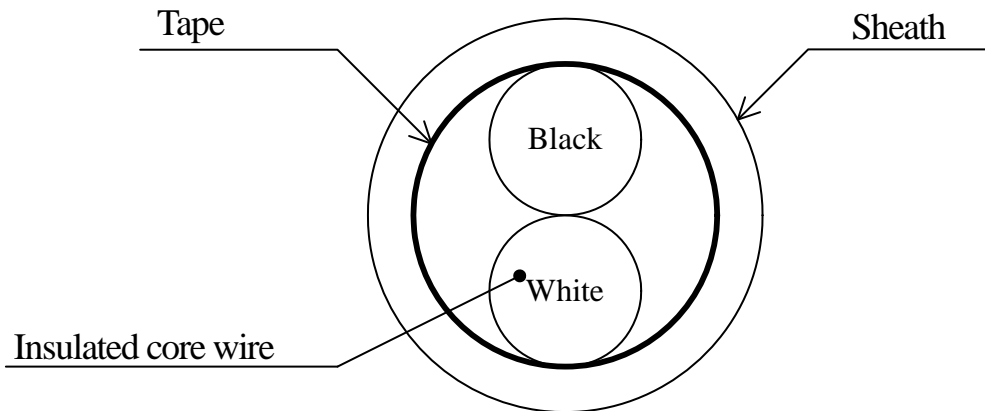
※ ××××××× are the serial number for seven digits.

## 8. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification
Structure		—	AWG16×2C
Conductor	Conductor size	—	AWG16
	Outer diameter	mm	Approx. 1.53
Insulation	Material	—	PVC
	Outer diameter	mm	Approx. 2.43
Stranding	Number of insulation core wire	—	2C
Sheath	Material	—	Flame resisting PVC
	Color	—	Black
Overall diameter		mm	Approx. 7.0
Electrical characteristics	Insulation resistance	MΩ · km	Over 10
	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
Connector	Power supply side	Type	DDK Ltd. CM10-CR2P-M (Cable receptacle) or CMV1-CR2P-M2 (Cable receptacle)
		IP rating	IP67*1
	Motor side	Type	DDK Ltd. CM10-SP2S-M (D6) (Straight plug) or CMV1-SP2S-M2 (Straight plug)
		IP rating	IP67*1

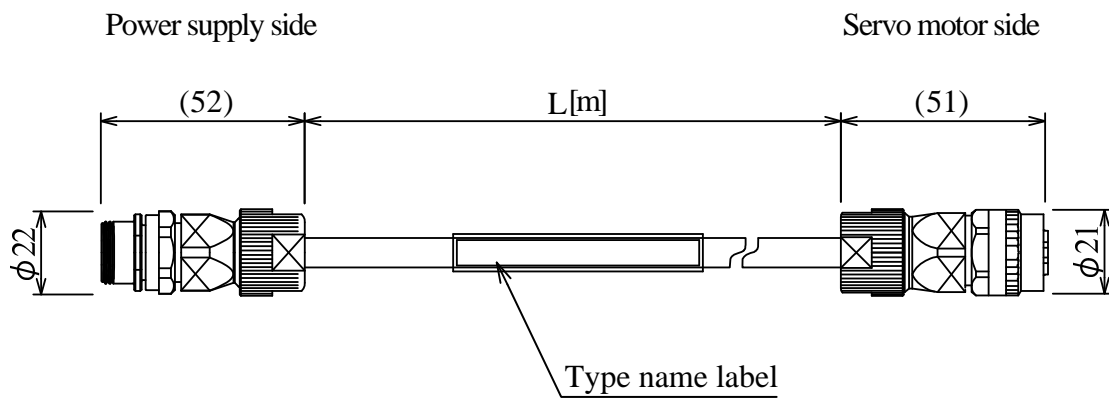
\*1 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

### 9. STRUCTURAL DRAWING



### 10. OUTLINE DRAWING

[Unit : mm]



### 11. SYSTEM CONFIGURATION DIAGRAM

