# Specification for General purpose AC Servo Electromagnetic brake cable

Type SC-BKS1JCBL□M-■-L

# MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

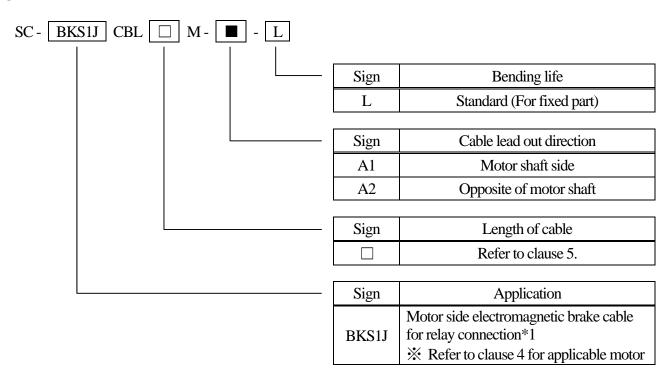
	Revision				Check	Design	Approved		
A	14 July ,2017			n.Ishii	S. Kariya	5 kapahana	D. subushin		
	Send to			Date		Dwg			
				26 Apr	r.,2016				
				Order		X903703D5	3D50052-G06A		

#### 1. SCOPE

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

- SC-BKS1JCBL□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



<sup>\*1</sup> 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 CL3 (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

Motor type neme	Comb	Total cable		
Motor type name	Power supply side	Motor side	length	
HG-KR/MR	SC-BKC1CBL□M-L(*1)	SC DVS1ICDI  M  I (*2)	10m on loss	
HF-KN/KP/MP	SC-BKC1CBL□M-H (*1)	SC-BKS1JCBL□M-■-L(*2)	40m or less	

<sup>\*1</sup> Please use 30m or less cable at power supply side.

# 7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-BKS1JCBL□M-■-L	$\times$						

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

   is cable lead out direction from A1, A2.
- $\times \times \times \times \times \times \times \times$  are the serial number for seven digits.

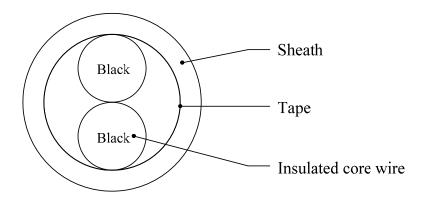
# 8. STRUCTURE AND CHARACTERISTICS

	Item		Unit	Specification		
Structure			_	AWG20×2C		
Conductor	Conductor size		_	AWG20		
Conductor	Outer diamete	er	mm	Approx. 0.95		
In avalation	Material		_	ETFE		
Insulation	Outer diameter		mm	Approx. 1.35		
Stranding	Number of insulation core wire		_	2C		
Sheath	Material		_	Flame resisting PVC		
Sheam	Color		_	Black		
Overall diamete	Overall diameter			Approx. 4.7		
Electrical	Insulation res	istance	$MΩ \cdot km$	Over 100		
characteristics	Withstand vo	ltage	V for1minute	AC500		
Operating temporating	Operating temperature range			-10~+60 (without condensation)		
Minimum Bend Radius			mm	6 times the overall diameter		
Flame Retardant			_	UL1581 VW-1		
	Power supply side	Туре	DDK Ltd. CM10-CR2P-S (Cable receptacle) or CMV1-CR2P-S (Cable receptacle)			
Connector		IP rating	IP67*1			
	Motor side	Туре	Japan Aviation Electronics Industry, Limited JN4FT02SJ1-R (Angle plug)			
		IP rating	IP67*1			

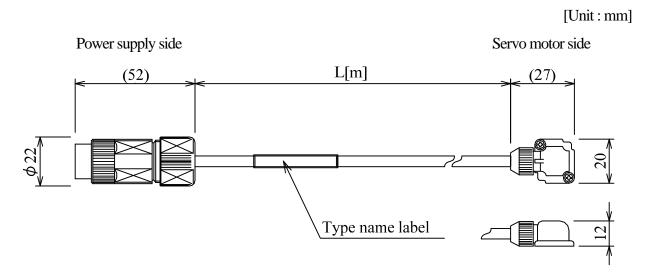
<sup>\*1</sup> The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

<sup>\*2</sup> Please use 10m or less cable at motor side.

# 9. STRUCTURAL DRAWING



# 10. OUTLINE DRAWING



# 11. SYSTEM CONFIGURATION DIAGRAM

