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

Type SC-BKS1CBL□M-■-S

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

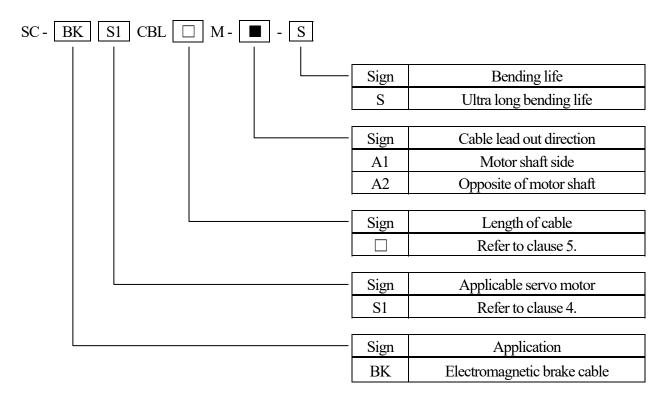
Note Revision Check Design Approved Drawn 13 Nov.,2017 A ma auamura D Zuch ushin 11 Jun.,2018 B Send to Date Dwg 26 Apr.,2016 Order X903703D50052-G21B

1. SCOPE

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

- · SC-BKS1CBL□M-■-S
- X The Products covered in this specification don't include the toxic substances in RoHS (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB).
- X UL's Wiring Harnesses Traceability program provides traceability for this cable.

2. CABLE TYPE



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. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-BKS1CBL□M-■-S ×××××××

% \square is a figure from 1 to 10.

※ ■ is cable lead out direction from A1, A2.

 $\times \times \times \times \times \times \times \times \times$ are the serial number for seven digits.

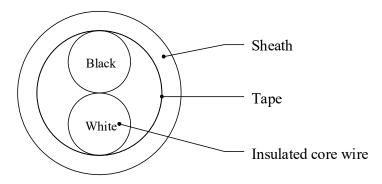
7. STRUCTURE AND CHARACTERISTICS

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		_	Flame resisting PVC
	Color		_	Black
Overall diameter			mm	Approx. 4.6
Electrical characteristics	Insulation resistance		$M\Omega$ · km	Over 1000
	Withstand voltage		V for1minute	AC500
Operating temperature range			$^{\circ}\!\mathbb{C}$	$-10\sim+60$ (without condensation)
Minimum bend radius			mm	6 times the overall diameter
Bending life			_	Over 10 million time*1 (Bend Radius: Minimum bend radius)
Flame retardant			_	UL1581 VW-1
Connector	Power supply side		_	
	Power motor side	Туре	Japan Aviation Electronics Industry, Limited JN4FT02SJ1-R (Angle plug)	
		IP rating	IP65*2	1

^{*1} This is only the test result, not a guaranteed value. (The performance would change depending on customer's situation)

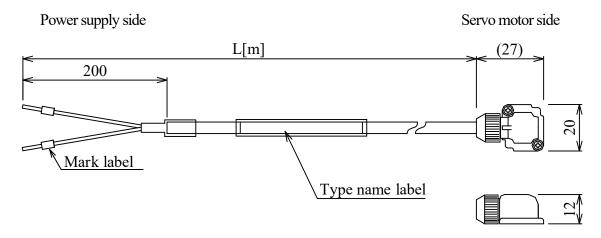
^{*2} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

8. STRUCTURAL DRAWING



9. OUTLINE DRAWING

[Unit:mm]



Refer to the following table for mark label and insulation color.

Mark label	Insulation color	
B1	White	
B2	Black	