Specification for General purpose AC Servo Electromagnetic brake cable

Type SC-BKC1CBL□M-L

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

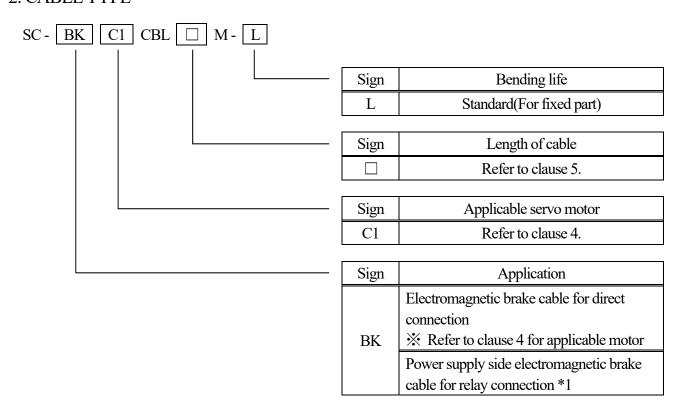
Revision			Check	Design	Approved	
31 Mar.,2017			4			
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		0	Order		X903703D50052-G03C	
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1. SCOPE

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

- SC-BKC1CBL□M-L
- ** 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



*1 When used for relay connection at the Power supply side

When using this cable for relaying at the Power supply side, for the items (1) to (3) below refer to the specification sheet on the motor side relay cable (below table).

- (1) Combination
- (2) Applicable motor
- (3) Cable length

Bending life	Cable type name	The number of specification sheet	
	SC-BKS1JCBL□M-■-L	X903703D50052-G06	
Standard (For fixed part)	SC-BKC1JCBL□M-L	X903703D50052-G09	
	SC-BKC1JCBL□M-■-L	X903703D50052-G10	
	SC-BKS1JCBL□M- ■ -H	X903703D50052-G16	
Long bending life	SC-BKC1JCBL□M-H	X903703D50052-G19	
	SC-BKC1JCBL□M- ■ -H	X903703D50052-G20	
Ultra long bending life	SC-BKS1JCBL□M-■-S	X903703D50052-G22	

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 30m Specified by 1m unit

6. EXAMPLE OF PRINTING CABLE TYPE NAME

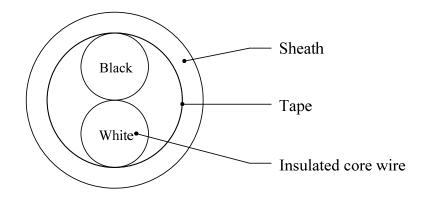
SC-BKC1CBL□M-L ××××××
※ □ is a figure from 1 to 30.
※ ××××××× are the serial number for seven digits.

7. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification	
Structure		_	AWG16×2C	
Conductor	Conductor size		_	AWG16
	Outer diameter		mm	Approx. 1.53
Insulation	Material		_	PVC
Insulation	Outer diameter		mm	Approx. 2.43
Stranding	Number of insulation core wire		_	2C
Classella	Material		_	Flame resisting PVC
Sheath Color			_	Black
Overall diameter		mm	Approx. 7.0	
Electrical characteristics	Insulation resistance		MΩ·km	Over 10
	Withstand voltage		V for1minute	AC500
Operating temperature range		$^{\circ}\!\mathbb{C}$	-10~+60 (without condensation)	
Minimum bend radius			mm	6 times the overall diameter
Flame retardant		_	UL1581 VW-1	
Power su		ly side	_	
Connector	Servo motor side	Туре	DDK Ltd. CM10-SP2S-M (D6) (Straight plug) or CMV1-SP2S-M2 (Straight plug)	
		IP rating	IP67*1	

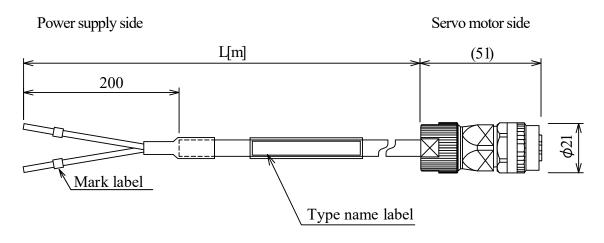
^{*1} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

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	