

1. SCOPE

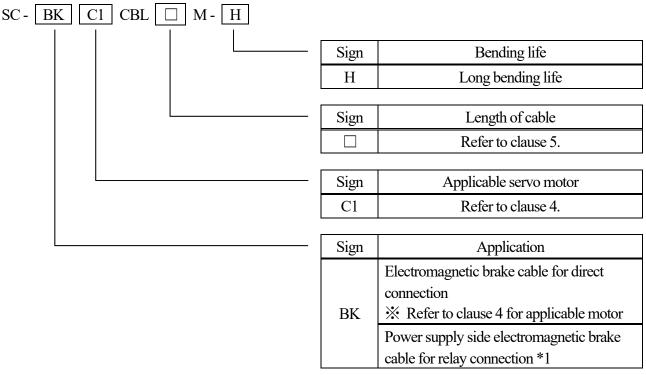
This specification covers the requirements for the General purpose AC Servo Long Bending Life Electromagnetic brake cable.

• SC-BKC1CBL□M-H

<u>X</u> 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 2586 (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 \Box M-H ××××××

- \approx \square is a figure from 1 to 30.
- \times \times \times \times \times \times \times \times are the serial number for seven digits.

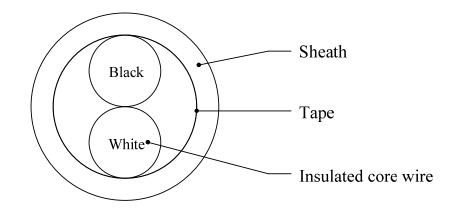
Item		Unit	Specification	
Structure		—	AWG16×2C	
Conductor	Conductor size		_	AWG16
	Outer diameter		mm	Approx. 1.75
Insulation	Material		_	ETFE
	Outer diameter		mm	Approx. 2.55
Stranding	nding Number of insulation core wire		_	2C
Sheath	Material		—	Flame resisting PVC
	Color		_	Black
Overall diameter		mm	Approx. 7.2	
Electrical characteristics	Insulation resistance		$M\Omega \cdot km$	Over 100
	Withstand voltage		V for1minute	AC500
Operating temperature range		°C	-10 \sim +60 (without condensation)	
Minimum bend radius		mm	6 times the overall diameter	
Bending life		—	Over 1 million times *1 (Bend radius: Minimum bend radius)	
Flame retardant		_	UL1581 VW-1	
	Power supply side		_	
Connector	Servo motor side	Туре	DDK Ltd. CM10-SP2S-M (D6) (Straight plug) or CMV1-SP2S-M2 (Straight plug)	
		IP rating	IP67 ^{*2}	

7. STRUCTURE AND CHARACTERISTICS

*1 It is a test outcome, and not a guaranteed value. (The performance is different according to customer's environment.)

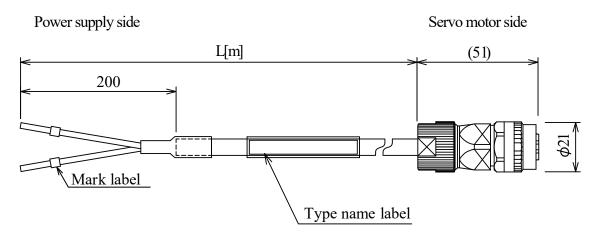
*2 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

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