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

Type SC-BKC1CBL□M-■-H

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

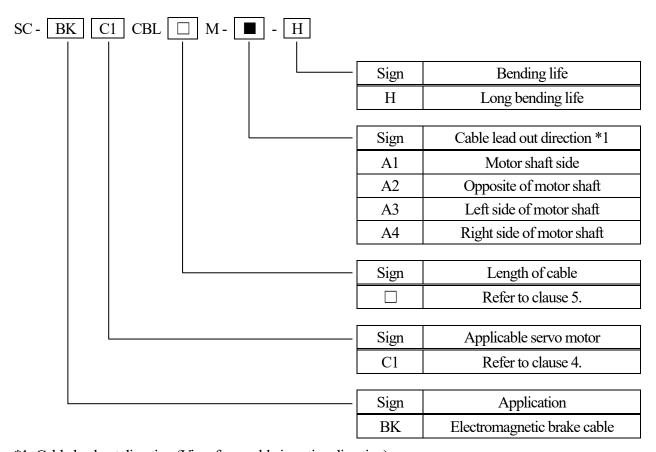
Revision Check Design Approved Drawn 31 Mar., 2017 A n. Ishii & Kanya M. Awamura D. Jubushim 11 Jun.,2018 B Send to Date Dwg 26 Apr., 2016 Order X903703D50052-G14B

1. SCOPE

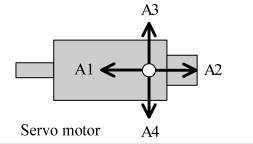
This specification covers the requirements for the General purpose AC Servo Long Bending Life Electromagnetic brake cable.

- SC-BKC1CBL□M-■-H
- * 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: Cable lead out direction (View from cable insertion direction)



A1: Motor shaft side

A2: Opposite of motor shaft A3: Left side of motor shaft

A4: Right side of motor shaft

(Note) Depending on the situation such as installation environment or combination of cables and connectors, there is a chance not to complete installation. (Even though it's mentioned above) Please make sure the cable lead out direction before your purchase.

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⊔M-■-H ××××××
*	\Box is a figure from 1 to 30.
*	is cable lead out direction from A1, A2, A3, A4.
※	$\times \times \times \times \times \times \times$ are the serial number for seven digits.

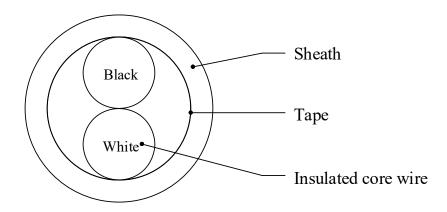
7. STRUCTURE AND CHARACTERISTICS

Item			Unit	Specification
Structure			_	AWG16×2C
Conductor	Conductor size		_	AWG16
Conductor	Outer diameter		mm	Approx. 1.75
Insulation	Material		_	ETFE
Insulation	Outer diameter		mm	Approx. 2.55
Stranding	Number of insulation core wire		_	2C
Sheath	Material		_	Flame resisting PVC
Sileaui	Color		_	Black
Overall diameter			mm	Approx. 7.2
Electrical	Insulation resistance		$M\Omega$ · km	Over 100
characteristics	Withstand voltage		V for1minute	AC500
Operating temporal	erature range		$^{\circ}\!\mathrm{C}$	-10~+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	Motor side	Туре	DDK Ltd. CM10-AP2S-M (D6) (Angle plug) or CMV1-AP2S-M2 (Angle plug)	
		IP rating	IP67*2	

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

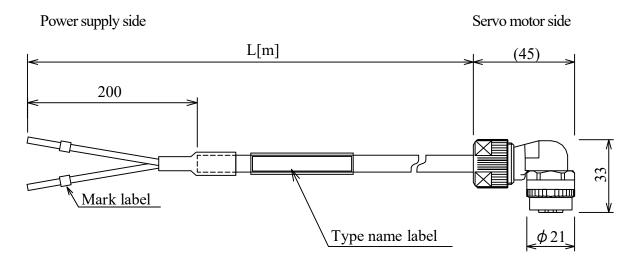
^{*2} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

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