

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				Drawn	Check	Design	Approved
A	31 Mar.,2017			<i>Nakhu</i>	<i>S.Kariya</i>	<i>M. Kawamura</i>	<i>J. Sushina</i>
B	14 July ,2017						
C	8 Jun.,2018						
Send to				Date		Dwg	
				26 Apr.,2016		X903703D50052-G13C	
				Order			

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 ×××××××

※ □ is a figure from 1 to 30.

※ ××××××× are the serial number for seven digits.

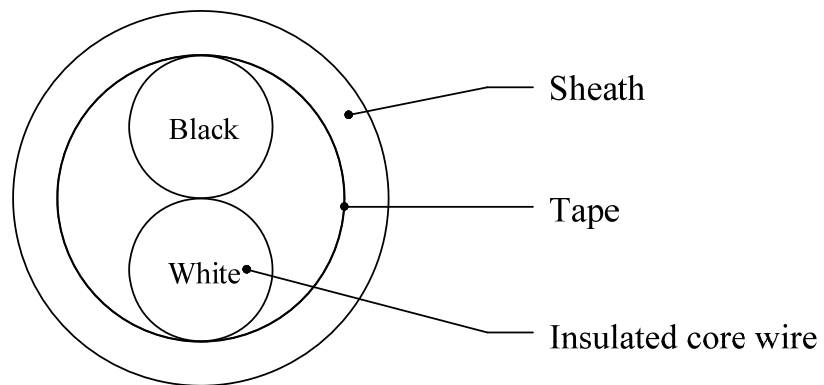
7. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification
Structure		—	AWG16×2C
Conductor	Conductor size	—	AWG16
	Outer diameter	mm	Approx. 1.75
Insulation	Material	—	ETFE
	Outer diameter	mm	Approx. 2.55
Stranding	Number of insulation core wire	—	2C
Sheath	Material	—	Flame resisting PVC
	Color	—	Black
Overall diameter		mm	Approx. 7.2
Electrical characteristics	Insulation resistance	MΩ · km	Over 100
	Withstand voltage	V for 1 minute	AC500
Operating temperature range		°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
Connector	Power supply side		—
	Servo motor side	Type	DDK Ltd. CM10-SP2S-M (D6) (Straight plug) or CMV1-SP2S-M2 (Straight 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.)

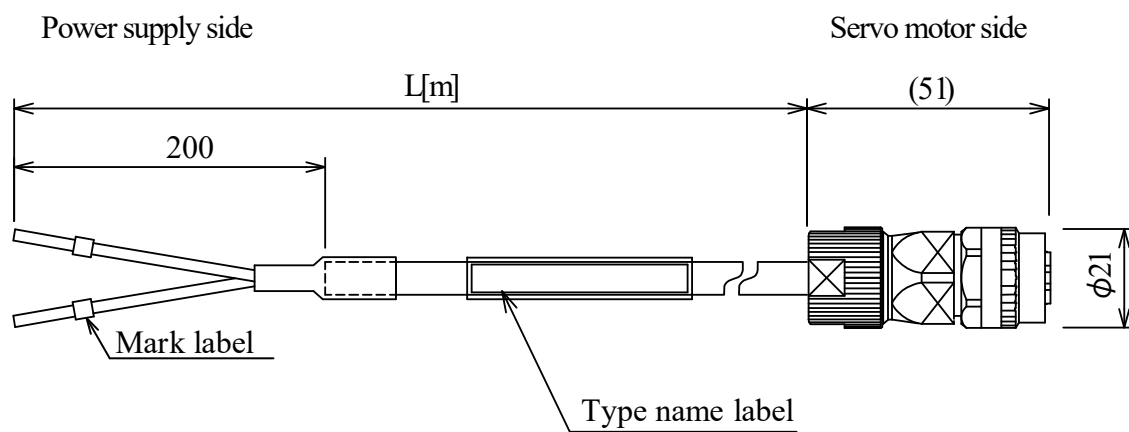
*2 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

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