

1. SCOPE

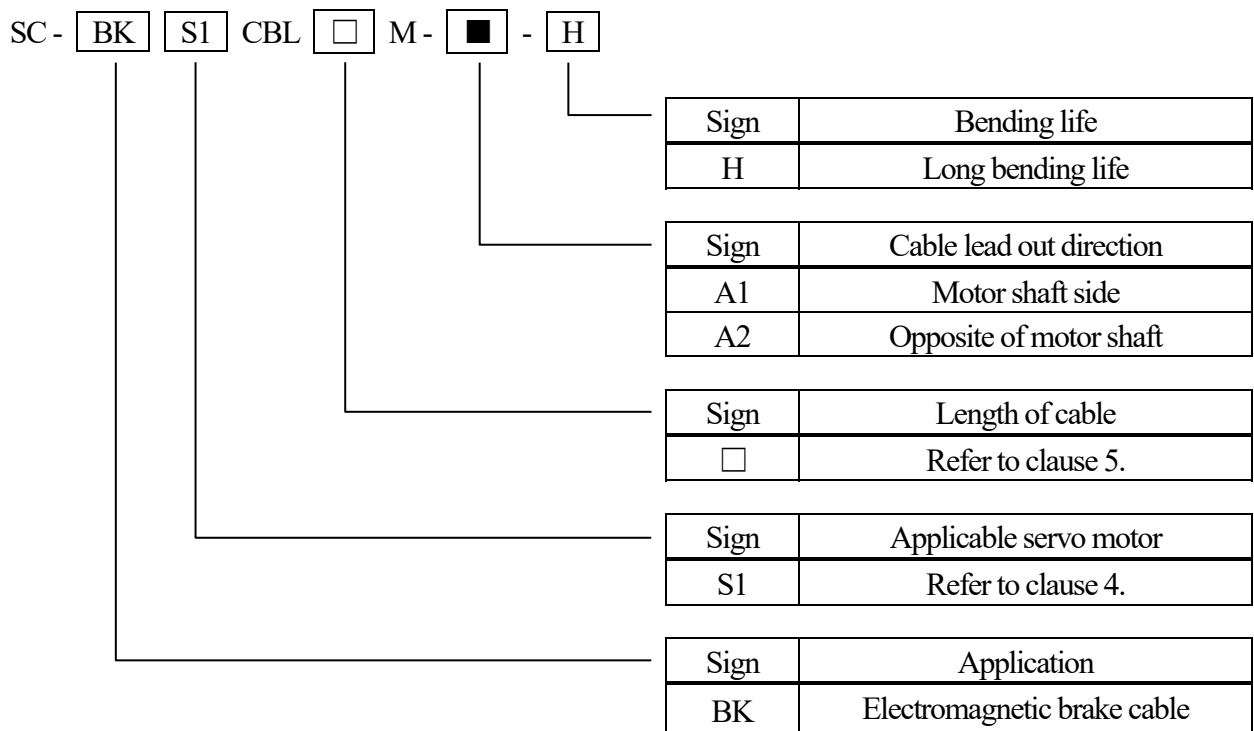
This specification covers the requirements for the General purpose AC Servo Long Bending Life Electromagnetic brake cable.

- SC-BKS1CBL□M-■-H

※ The Products covered in this specification don't include the toxic substances in RoHS (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB).

※ UL's Wiring Harnesses Traceability program provides traceability for this cable.

2. CABLE TYPE



3. APPLICABLE STANDARDS

Wire part : UL standard (UL 758 : AWM / UL13 PLCC CL3X)

UL Style No.	Rated	
2517	105°C	300V

4. APPLICABLE SERVO MOTOR

Refer to MR-J4 APPLICABLE SERVO MOTOR TABLE "R9037020-010022-105".

5. LENGTH OF CABLE

1 to 10m Specified by 1m unit

6. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-BKS1CBL□M-■-H ×××××××

- ※ □ is a figure from 1 to 10.
- ※ ■ is cable lead out direction from A1, A2.
- ※ ××××××× are the serial number for seven digits.

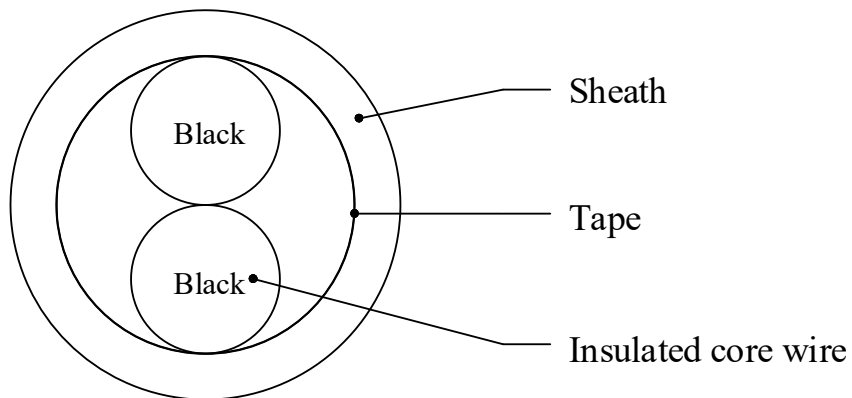
7. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification
Structure		—	AWG20×2C
Conductor	Conductor size	—	AWG20
	Outer diameter	mm	Approx. 0.97
Insulation	Material	—	ETFE
	Outer diameter	mm	Approx. 1.37
Stranding	Number of insulation core wire	—	2C
Sheath	Material	—	Flame resisting PVC
	Color	—	Black
Overall diameter		mm	Approx. 4.5
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 side		—
	Power motor side	Type	Japan Aviation Electronics Industry, Limited JN4FT02SJ1-R (Angle plug)
		IP rating	IP65*2

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

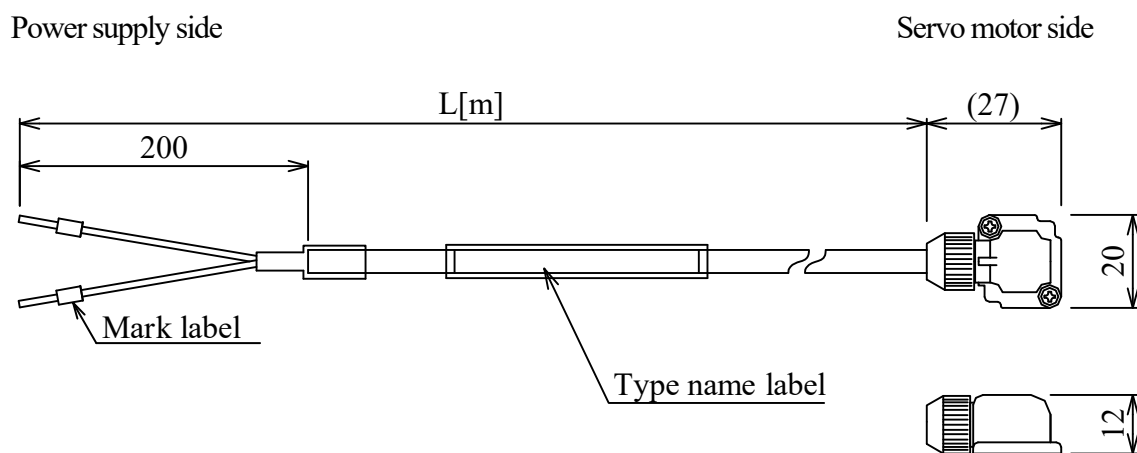
*2 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

8. STRUCTURAL DRAWING



9. OUTLINE DRAWING

[Unit : mm]



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

Mark label	Insulation color
B1	Black
B2	Black