



## 1. SCOPE

This specification covers the requirements for the General purpose AC Servo / Sensor less servo  
Long Bending life

Electromagnetic brake cable with shield.

• SC-BKS3CBL□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

SC - BKS3 CBL □ M - ■ - H

H	Sign	Bending life
	H	Long bending life
A2	Sign	Cable lead out direction
	A1	Motor shaft side
	A2	Opposite of motor shaft
□	Sign	Length of cable
	□	Refer to clause 5.
BKS3	Sign	Application
	BKS3	Electromagnetic brake cable with shield ※ Refer to clause 4 for applicable motor

## 3. APPLICABLE STANDARDS

Wire part : UL standard (UL 758 : AWM)

UL Style No.	Rated	
2517	105°C	300V

## 4. APPLICABLE SERVO MOTOR

Please refer to MR-J4 APPLICABLE MOTOR TABLE 「R9037020-01002-105」.

## 5. LENGTH OF CABLE

1 to 10m Specified by 1m unit

## 6. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-BKS3CBL□M-■-H ×××××××

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

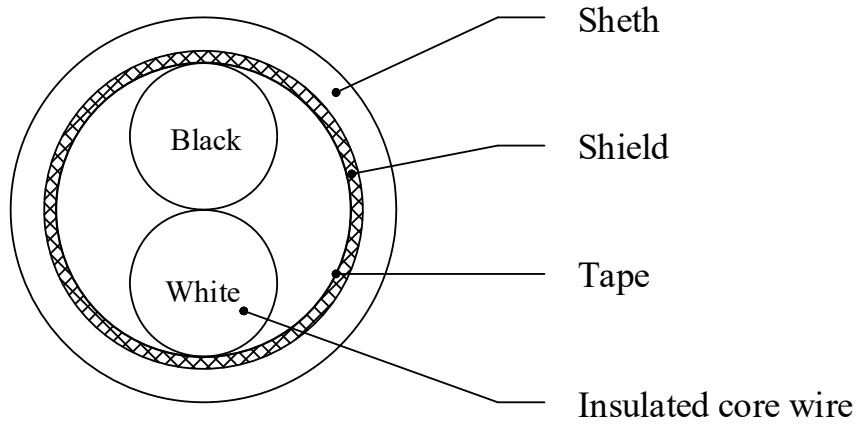
## 7. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification
Structure		—	AWG23×2C
Conductor	Conductor size	—	AWG23
	Outer diameter	mm	Approx. 0.72
Insulation	Material	—	ETFE
	Outer diameter	mm	Approx. 1.12
Stranding	Number of insulation core wire	—	2C
Shield	Material		Tin coated copper braid
Sheath	Material	—	Flame resisting PVC
	Color	—	Black
Overall diameter		mm	Approx. 4.5
Cable weight		kg/km	35
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 * <sup>1</sup> (Bend radius: Minimum bend radius)
Flame retardant		—	UL1581 VW-1
Connector	Power supply side		—
	Motor side	Type	Japan Aviation Electronics Industry, Limited JN4FT02SJ1-R (Angle Plug)
		IP rating	IP65* <sup>2</sup>

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

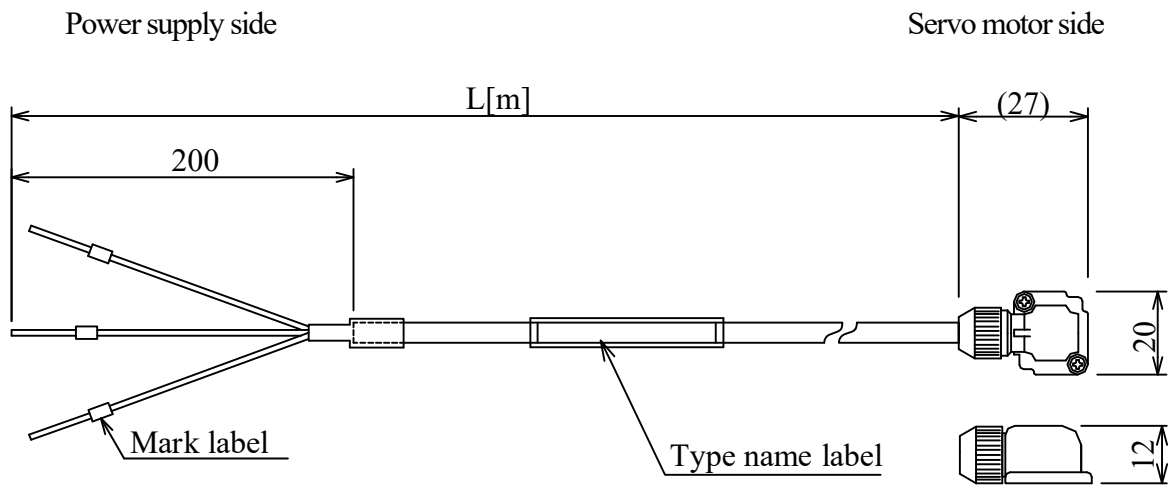
\*2 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

### 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
E	Green