



## 1. SCOPE

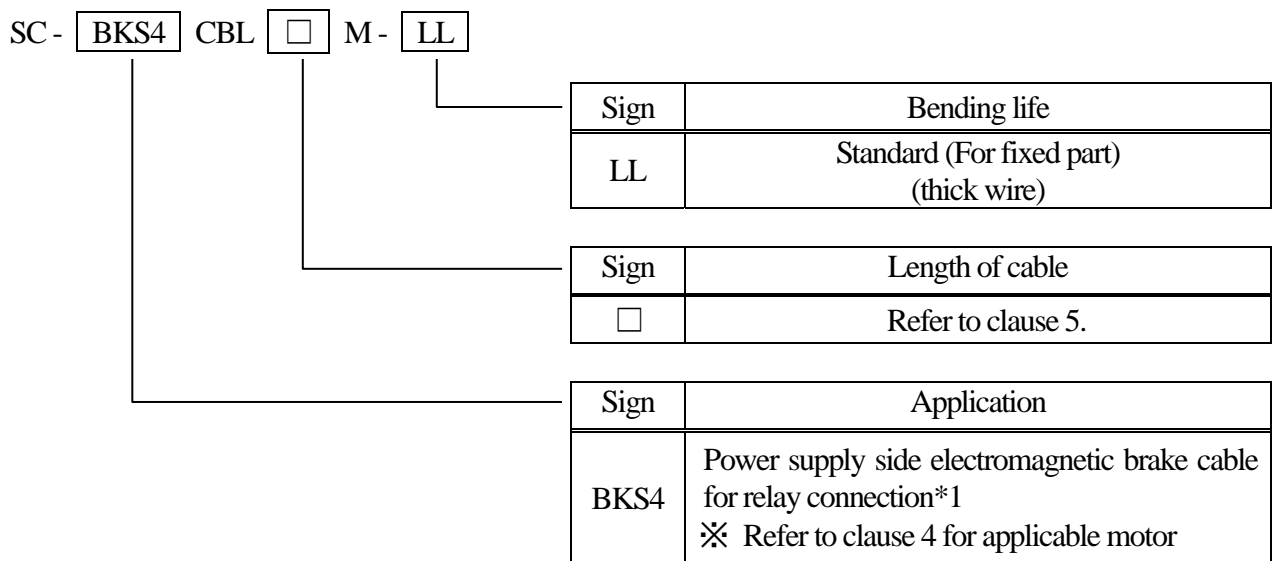
This specification covers the requirements for the General purpose AC Servo Electromagnetic brake cable.

- SC-BKS4CBL□M-LL

※ 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



- \*1 Please use it with power supply side electromagnetic brake cable.  
Refer to clause 6 for confirming the combination and cable length.

(Note) This cable doesn't have clamps for fixture. Please use cable ties or alternatives which can fix cable part; otherwise it might put too much stress on cables and cause disconnection.

## 3. APPLICABLE STANDARDS

UL758 AWM STYLE 2517 (wire part)

## 4. APPLICABLE SERVO MOTOR

HG-KR, HG-MR series motor  
HF-KN, HF-KP, HF-MP series motor

## 5. LENGTH OF CABLE

1 to 50m Specified by 1m unit

## 6. CABLE LENGTH FOR RELAY CONNECTION

Combination		Total cable length
Power supply side	Motor side	
SC-BKS4CBL□M-LL	SC-BKS4JCBL□M-■-L SC-BKS4JCBL□M-■-H SC-BKS4JCBL□M-■-S	10m or less 50m or less

## 7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-BKS4CBL□M-LL ×××××××

※ □ is a figure from 1 to 50.

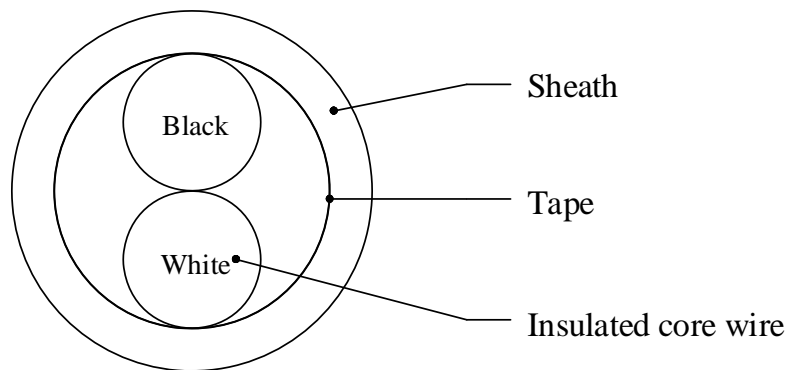
※ ××××××× are the serial number for seven digits.

## 8. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification
Structure		—	AWG16×2C
Conductor	Conductor size	—	AWG16
	Outer diameter	mm	Approx. 1.53
Insulation	Material	—	PVC
	Outer diameter	mm	Approx. 2.43
Stranding	Number of insulation core wire	—	2C
Sheath	Material	—	Flame resisting PVC
	Color	—	Black
Overall diameter		mm	Approx. 7.0
Electrical characteristics	Insulation resistance	MΩ · km	Over 10
	Withstand voltage	V for 1 minute	AC500
Operating temperature range		°C	-10~+60 (without condensation)
Minimum bend radius		mm	6 times the overall diameter
Flame retardant		—	UL1581 VW-1
Connector	Power supply side		—
	Motor side	Type	Molex 5559-02P-210 (Plug housing)
		IP rating	IP20 <sup>*1</sup>

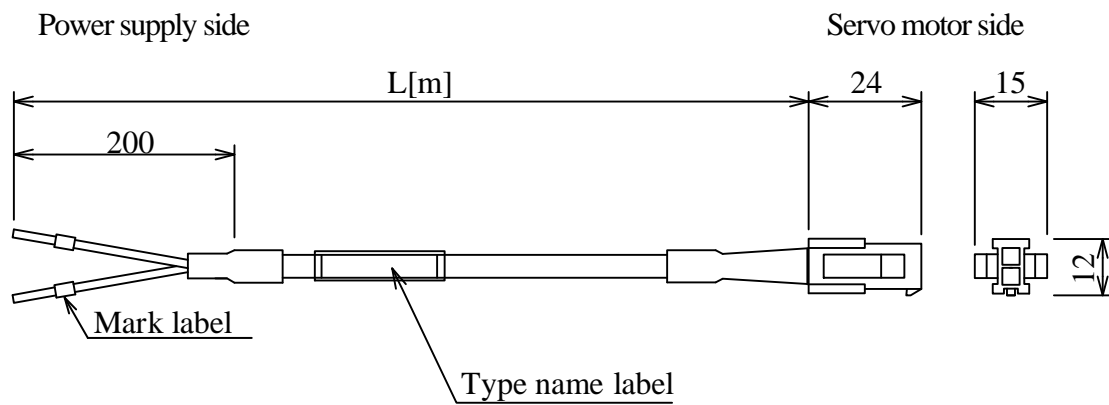
\*1 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

## 9. STRUCTURAL DRAWING



## 10. OUTLINE DRAWING

[Unit : mm]



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

Mark label	Insulation color
B1	White
B2	Black

### 11. SYSTEM CONFIGURATION DIAGRAM

