

1. SCOPE

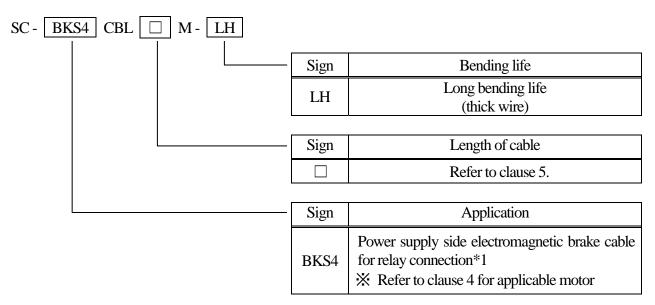
This specification covers the requirements for the General purpose AC Servo Long Bending Life Electromagnetic brake cable.

• SC-BKS4CBL□M-LH

<u>* The Products covered in this specification don't include the toxic substances in RoHS (Lead, Mercury,</u> 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 2586 (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

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

7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-BKS4CBL \square M-LH $\times \times \times \times \times \times \times$

- : \square is a figure from 1 to 50.

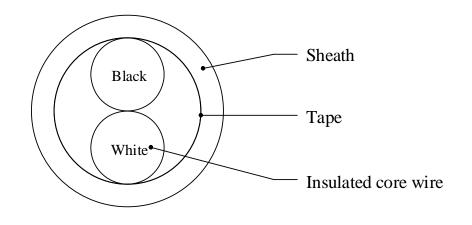
8. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification	
Structure		_	AWG16×2C	
Conductor	Conductor size		—	AWG16
Conductor	Outer diameter		mm	Approx. 1.75
Insulation	Material		_	ETFE
	Outer diameter		mm	Approx. 2.55
Stranding	Number of insulation core wire		_	2C
Chaoth	Material		—	Flame resisting PVC
Sheath	Color		—	Black
Overall diameter		mm	Approx. 7.2	
Electrical	Insulation resistance		$M\Omega \cdot km$	Over 100
characteristics	Withstand voltage		V for1minute	AC500
Operating temperature range		°C	-10 \sim +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	Molex 5559-02P-210 (Plug housing)	
		IP rating	IP20*2	

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

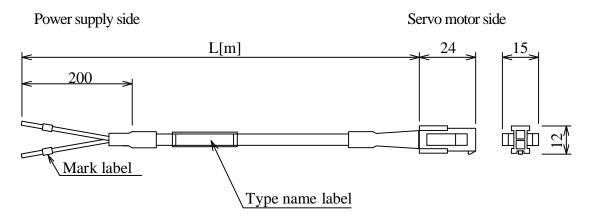
*2 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

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

