Specification
for
General purpose AC Servo
Power supply cable
with electromagnetic brake

Type SC-PWBKC1CBL□M-SB○H

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

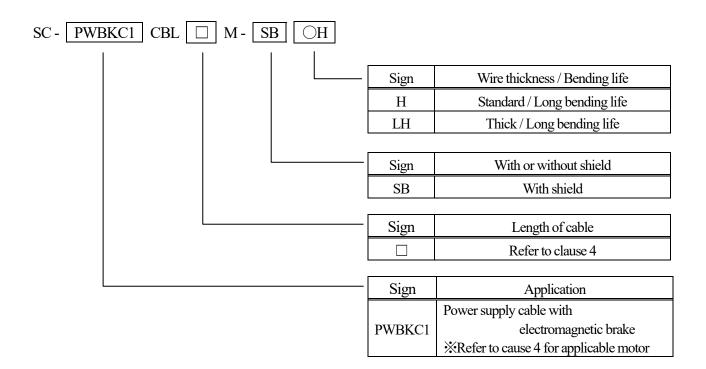
	Re	evision		Drawn	Check	Design	Approved
A	24 Mar.,2020			n. Ito	S. Larryon	L. mironaga	D. sakushim
	S	end to	7	Da	ate	D	wg
				24 Apr	r.,2019		
				Order X953503D70003-E		70003-E40A	

1. SCOPE

This specification covers the requirements for the General purpose AC Servo Power supply cable with electromagnetic brake.

- SC-PWBKC1CBL□M-SBH
- SC-PWBKC1CBL□M-SBLH
- <u>**</u> The Products covered in this specification don't include the toxic substances in RoHS2 (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB, HBCDD, DEHP, BPP, DBP).

2. CABLE TYPE



3. APPLICABLE STANDARDS

Wire part: UL standard (UL 758: AWM)

UL Style No.	Rated		
21885	105°C	600V	

4. APPLICABLE MOTOR / LENGTH OF CABLE

Target series	Length of cable	Type name end	Amplifier power supply voltage	Applicable motor
	1∼30m	Н	200V	HG-RR103B, 153B, 203B motor HG-UR72B, 152B motor
MR-J4		LH		HG-RR103B, 153B, 203B motor HG-UR152B motor
series	31~100m	Н	H 200V LH	The maximum cable length differs depending on the motor.
		LH		Please contact a nearest branch for details
MR-J5	1~100m	Н	200V	It is a cable for amplifier side relay. The applicable motor and maximum cable length differ depending on the wire thickness.
series		LH		Please refer to the CABLE LENGTH SELECTION TABLE "R9535021-018028-010" for more information

When using as MR-J5 series amplifier side relay

When using this cable for relaying at the MR-J5 series amplifier side, Check the specifications of the motor side relay cable (below table).

Target series	Bending life	Cable type name	The number of specification sheet
MR-J5 series	Standard (For fixed part)	SC-AEPB3J2C□M-■-L	X953503D70003-E01

5. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-	PWBKC1CBL \(\triangle M-SB \cappa H \times \
*	\square is a figure from 1 to 100.
*	is wire thickness from none, L.
:	XXXXXXX are the serial number for seven digits

6. STRUCTURE AND CHARACTERISTICS

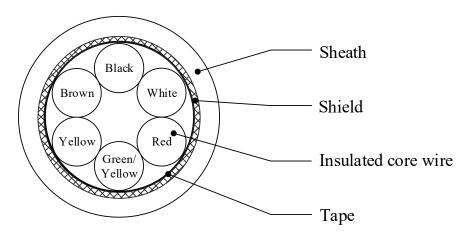
Item		Unit	Specification			
10	em	Oilit	Н	L	H	
Structure		_	AWG15×6C	AWG12×4C+AWG15×2C		
Conductor	Conductor size	_	AWG15	AWG12	AWG15	
Conductor	Outer diameter	mm	Approx.2.0	Approx.2.6	Approx.2.0	
Insulation	Material	_	Special elastomer	Special elastomer		
Hisulation	Outer diameter	mm	Approx.2.4	Approx.3.1	Approx.2.4	
Twisted	Number of insulated core wire	_	6C	4C	2C	
Shield	Material	_	Tin coated copper braid	Tin coated o	copper braid	
C1 .1	Material	_	Flame resisting PVC	Flame resi	sting PVC	
Sheath	color	_	Black	Black		
Overall diameter	r	mm	Approx. 9.8	Approx. 11.4		
Electrical	Insulation resistance	MΩ · km	Over 100	Over 100		
characteristics	Withstand voltage	V / for 1 min	AC2000	AC2000		
Operating temperature range		°C	-10~+60 (without condensation)	-10~+60 (without condensation)		
Minimum bend radius		mm	6 times the overall diameter	6 times the overall diameter		
Bending life			Over 1 million times*1 (by Minimum bend radius)	Over 1 million times*1 (by Minimum bend radius)		
Flame retardant		_	UL1581 VW-1	UL1581 VW-1		
Connector						
Amplifier side						
Motor side	Туре	DDK Ltd. CE05-6A22-23SD-D-BSS(R1) (Straight plug) CE3057-12A-2-D(R1) (Cable clamp)				
	IP rating	IP67*2				

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

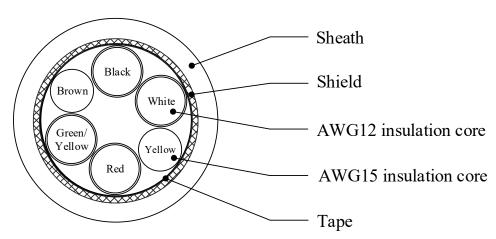
^{*2} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

7. STRUCTURAL DRAWING

(1)SC-PWBKC1CBL□M-SBH

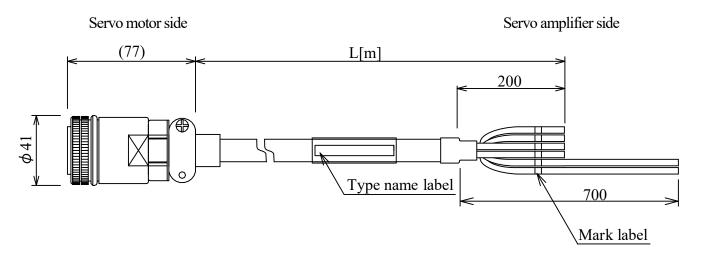


(2) SC-PWBKC1CBL \square M-SBLH



8. OUTLINE DRAWING

[Unit:mm]



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

Application	Mark label	Insulation color	
	U	Red	
For motor possyon gunnly	V	White	
For motor power supply	W	Black	
	E	Green / Yellow	
For brake circuit	B1	Yellow	
For brake circuit	B2	Brown	