

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

Type SC-PWBKC1CBL□M-SB○L

MITSUBISHI ELECTRIC  
SYSTEM & SERVICE CO.,LTD

Note

Revision				Drawn	Check	Design	Approved
A	24 Mar.,2020			N. Ito	S. Kariya	S. Minenaga	D. Tsubushiro
Send to				Date		Dwg	
				24 Apr.,2019		X953503D70003-E39A	
				Order			

UL Style No.	Rated	
2586	105°C	600V

## 4. APPLICABLE MOTOR / LENGTH OF CABLE

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

**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□M-SB○L    xxxxxxx

- ※ □ is a figure from 1 to 100.
- ※ ○ is wire thickness from none , L.
- ※ xxxxxxx are the serial number for seven digits.

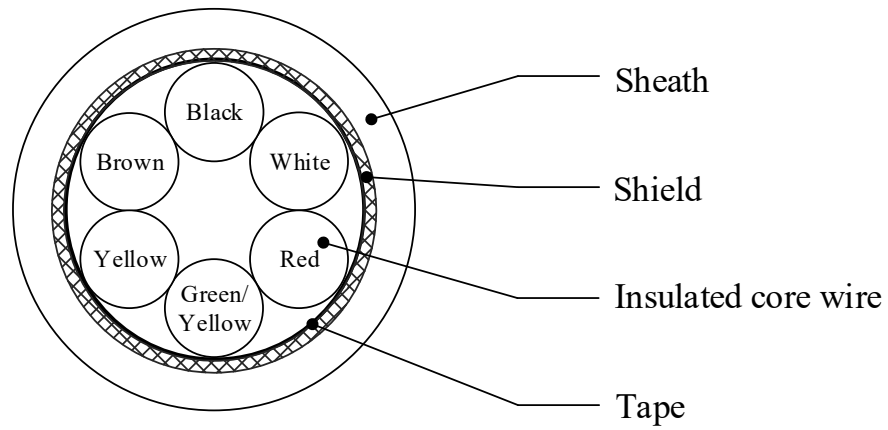
## 6. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification		
			L	LL	
Structure		—	AWG14×6C	AWG12×4C+AWG14×2C	
Conductor	Conductor size	—	AWG14	AWG12	AWG14
	Outer diameter	mm	Approx.2.0	Approx.2.5	Approx.2.0
Insulation	Material	—	PVC	PVC	
	Outer diameter	mm	Approx.3.7	Approx.4.2	Approx.3.7
Twisted	Number of insulated core wire	—	6C	4C	2C
Shield	Material	—	Tin coated copper braid	Tin coated copper braid	
Sheath	Material	—	Flame resisting PVC	Flame resisting PVC	
	color	—	Black	Black	
Overall diameter		mm	Approx. 13.7	Approx. 14.9	
Electrical characteristics	Insulation resistance	MΩ・km	Over 10	Over 10	
	Withstand voltage	V / for 1 min	AC2000	AC2000	
Operating temperature range		℃	-10～+60 (without condensation)	-10～+60 (without condensation)	
Minimum bend radius		mm	6 times the overall diameter	6 times the overall diameter	
Flame retardant		—	UL1581 VW-1	UL1581 VW-1	
Connector					
Amplifier side		—			
Motor side	Type	DDK Ltd. CE05-6A22-23SD-D-BSS(R1) (Straight plug) CE3057-12A-1-D(R1) (Cable clamp)			
	IP rating	IP67 <sup>*1</sup>			

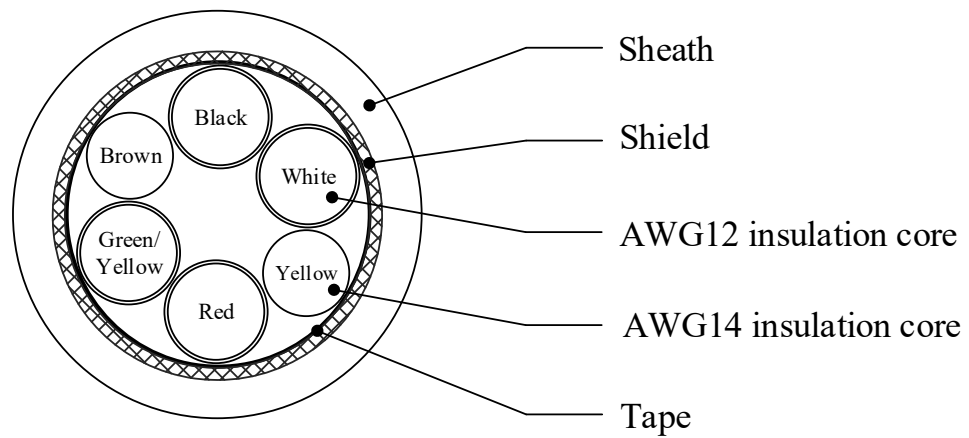
\*1 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

## 7. STRUCTURAL DRAWING

(1)SC-PWBKC1CBL□M-SBL

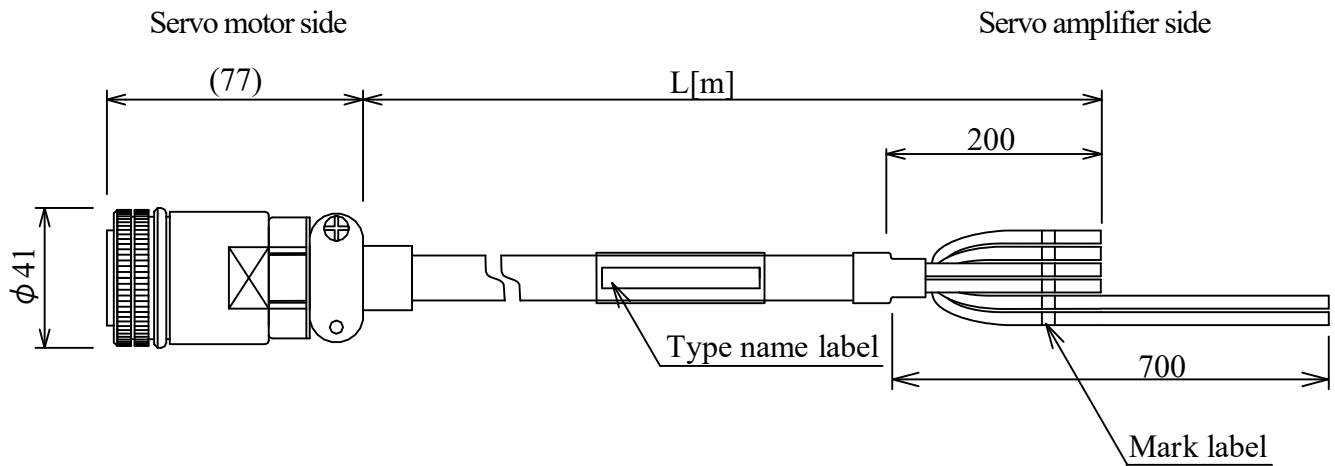


(2) SC-PWBKC1CBL□M-SBLL



## 8. OUTLINE DRAWING

[Unit : mm]



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

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