

Specification
for
General purpose AC Servo
Power supply cable
with sealed

Type SC-PWC4CBL□M-SB○L

MITSUBISHI ELECTRIC
SYSTEM & SERVICE CO.,LTD

Note

Revision				Drawn	Check	Design	Approved
A	7 Jun.,2018			f. minenaga	f. Kajiya	f. minenaga	D. Subushim
B	9 Apr.,2019						
Send to				Date		Dwg	
				31 Mar.,2017		X903703D50052-F50B	
				Order			

1. SCOPE

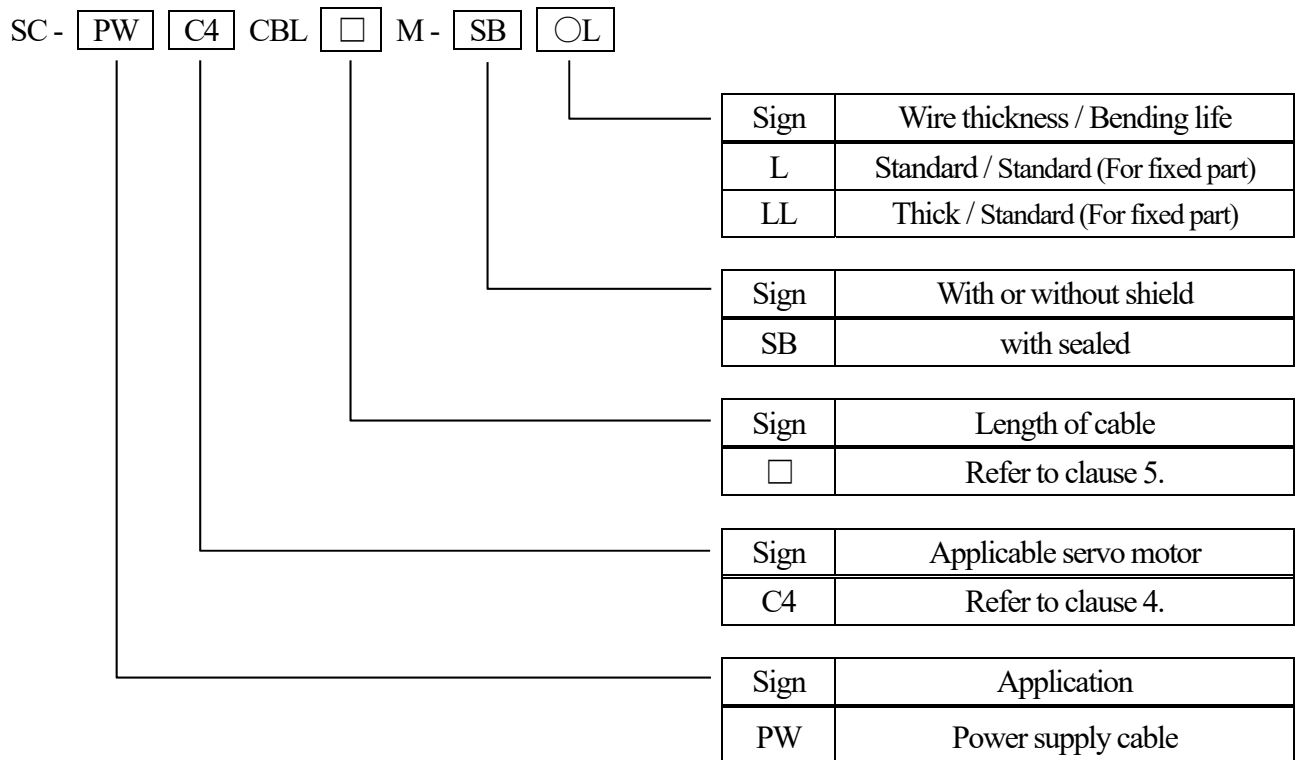
This specification covers the requirements for the General purpose AC Servo Power supply cable with sealed.

- SC-PWC4CBL□M-SBL
- SC-PWC4CBL□M-SBLL

※ 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



3. APPLICABLE STANDARDS

Wire part : UL standard (UL 758 : AWM)

UL Style No.	Rated	
2586	105°C	600V

4. APPLICABLE SERVO MOTOR

Target series	Applicable servo motor type name
MR-J4 series	Refer to MR-J4 APPLICABLE SERVO MOTOR TABLE "R9037020-010022-105".
MR-J5 series	In the choice page of catalogue or our homepage, please confirm it.

5. ENNGTH OF CABLE

1 to 30m Specified by 1m unit

※ When using the MR-J5 series, please refer to the CABLE LENGTH SELECTION TABLE "R9535021-018028-010".

6. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWC4CBL□M-SB○L ×××××××

※ □ is a figure from 1 to 30.

※ ○ is wire thickness from none , L.

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

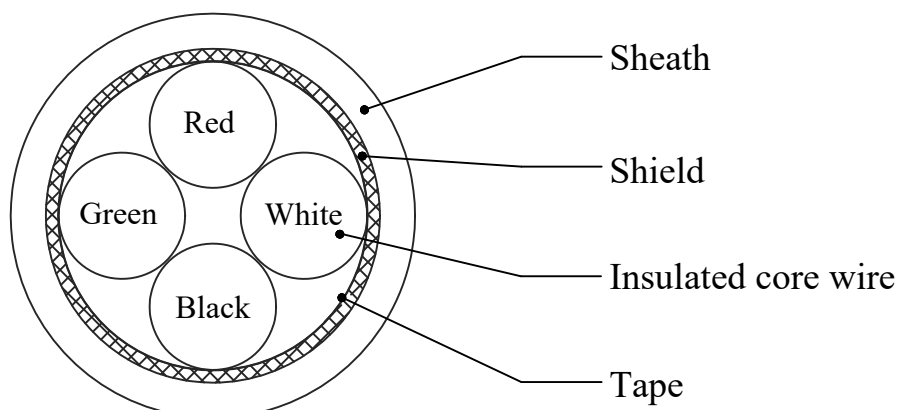
7. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification	
			L	LL
Structure		—	AWG14×4C	AWG12×4C
Conductor	Conductor size	—	AWG14	AWG12
	Outer diameter	mm	Approx.1.92	Approx.2.48
Insulation	Material	—	PVC	
	Outer diameter	mm	Approx. 3.62	Approx. 4.18
Stranding	Number of insulation core wire	—	4C	
Shield	Material		Tin coated copper braid	
Sheath	Material	—	Flame Retardant PVC	
	Color	—	Black	
Overall diameter		mm	Approx. 11.5	Approx. 12.9
Electrical characteristics	Insulation resistance	MΩ · km	Over 10	
	Withstand voltage	V for 1minute	AC2000	
Operating temperature range		°C	-10~+60 (without condensation)	
Minimum radius bend		mm	6 times the overall diameter	
Flame retardant		—	UL1581 VW-1	
Connector	Servo amplifier side		—	
	Servo motor side	Type	DDK Ltd. CE05-6A18-10SD-D-BSS (Straight plug) CE3057-10A-1-D (Waterproof cable clamp)	
		IP rating	IP67*1	

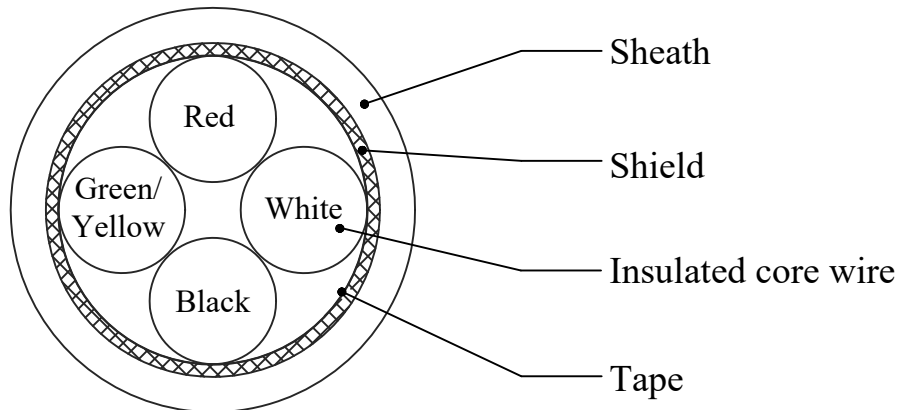
*1 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

8. STRUCTURAL DRAWING

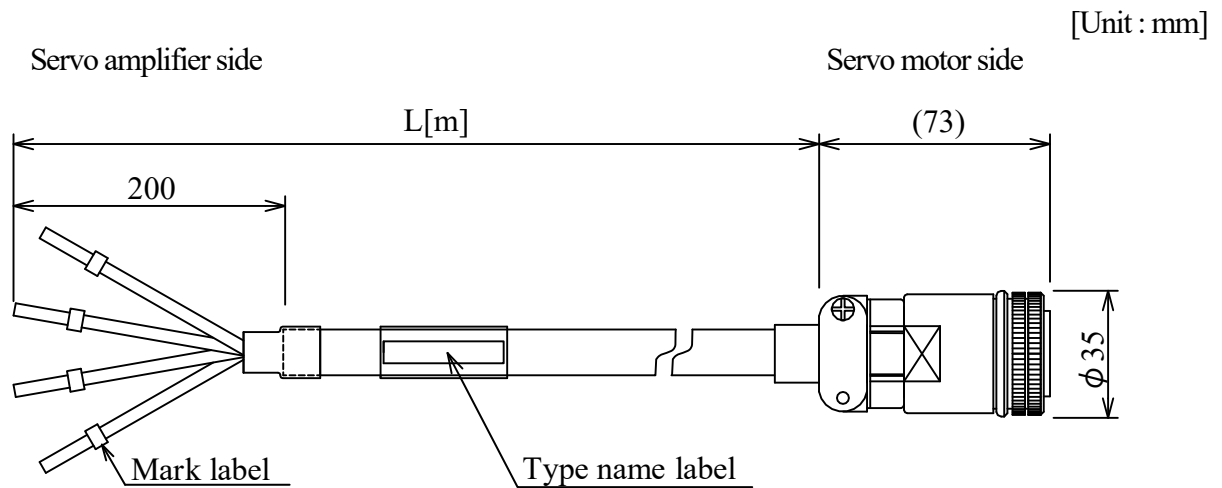
(1) SC-PWC4CBL□M-SBL



(2) SC-PWC4CBL□M-SBLL



9. OUTLINE DRAWING



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

(1) SC-PWC4CBL□M-SBL

Mark label	Insulation color
U	Red
V	White
W	Black
E	Green

(2) SC-PWC4CBL□M-SBLL

Mark label	Insulation color
U	Red
V	White
W	Black
E	Green / Yellow