

Specification
for
General purpose AC Servo
Long Bending Life Power supply cable
with sealed

Type SC-PWC4CBL□M-SB○H

MITSUBISHI ELECTRIC
SYSTEM & SERVICE CO.,LTD

Note

Revision				Drawn	Check	Design	Approved
A	7 Jun.,2018			<i>A. Minenaga</i>	<i>S. Kaya</i>	<i>A. Minenaga</i>	<i>D. Subashini</i>
B	11 Apr.,2019						
Send to				Date		Dwg	
				31 Mar.,2017		X903703D50052-F51B	
				Order			

1. SCOPE

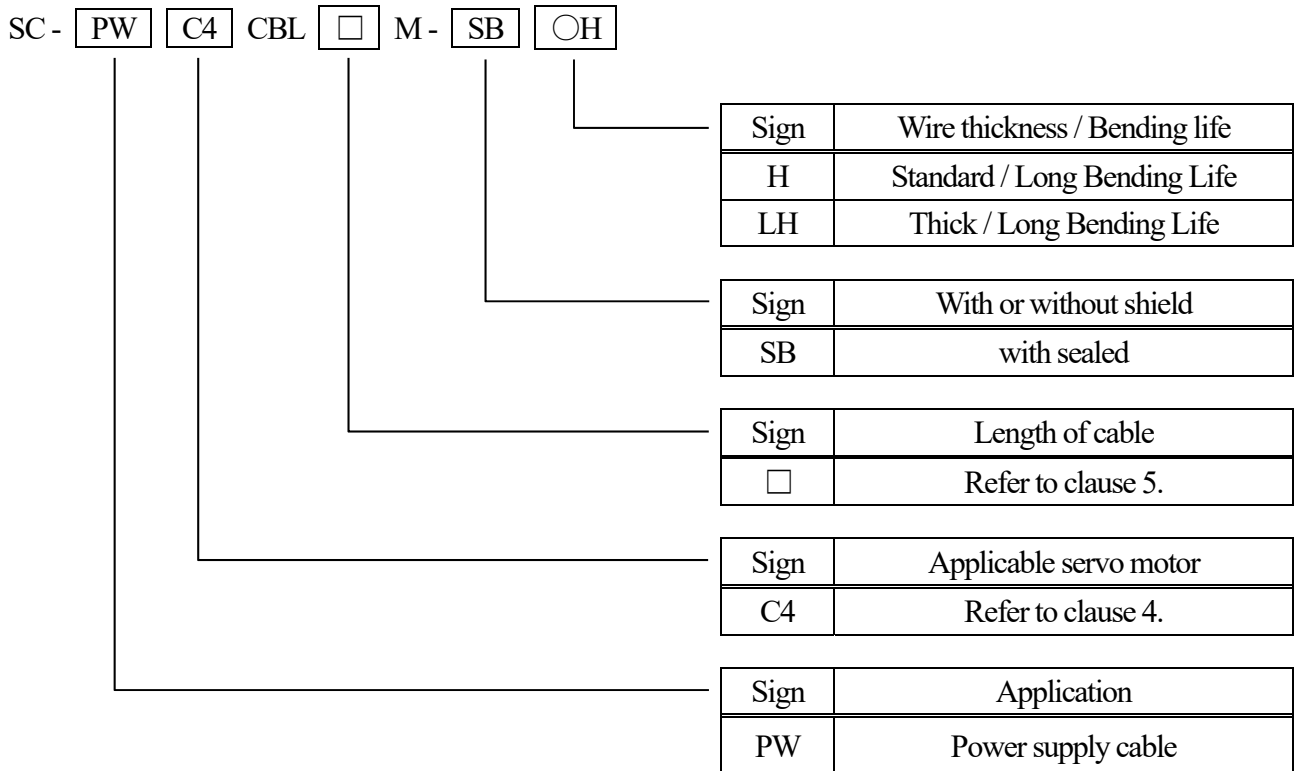
This specification covers the requirements for the General purpose AC Servo Long Bending Life Power supply cable with sealed.

- SC-PWC4CBL□M-SBH
- SC-PWC4CBL□M-SBLH

※ 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. LENGTH OF CABLE

1 to 30m Specified by 1m unit

※ When using the MR-J5 series, please refer to the CABLE LENGTH SELECTION TABLE "R9535021-018018-010".

6. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWC4CBL□M-SB○H ×××××××

※ □ is a figure from 1 to 30.

※ ○ is wire thickness from none, L.

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

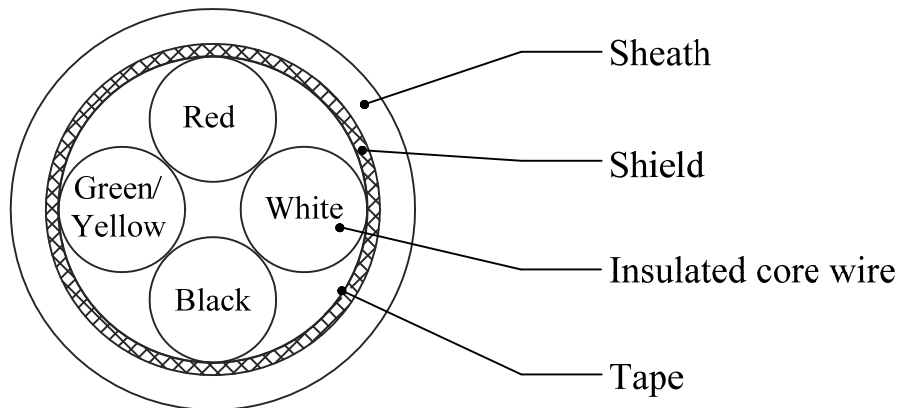
7. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification	
			H	LH
Structure		—	AWG15×4C	AWG12×4C
Conductor	Conductor size	—	AWG15	AWG12
	Outer diameter	mm	Approx. 2.00	Approx. 2.60
Insulation	Material	—	ETFE	
	Outer diameter	mm	Approx. 2.80	Approx. 3.40
Stranding	Number of insulation core wire	—	4C	
Shield	Material	—	Tin coated copper braid	
Sheath	Material	—	Flame Retardant PVC	
	Color	—	Black	
Overall diameter		mm	Approx. 9.9	Approx. 11.5
Electrical characteristics	Insulation resistance	MΩ · km	Over 100	
	Withstand voltage	V for 1minute	AC2000	
Operating temperature range		°C	-10~+60 (without condensation)	
Minimum radius bend		mm	6 times the overall diameter	
Bending life		—	Over 1 million times* ¹ (Bend radius: Minimum bend radius of each cable)	
Flame retardant		—	UL1581 VW-1	
Connector	Servo amplifier side		—	
	Servo motor side	Type	H: DDK Ltd. CE05-6A18-10SD-D-BSS (Straight plug) CE3057-10A-2-D (Waterproof cable clamp)	
			LH: DDK Ltd. CE05-6A18-10SD-D-BSS (Straight plug) CE3057-10A-1-D (Waterproof cable clamp)	
	IP rating	IP67* ²		

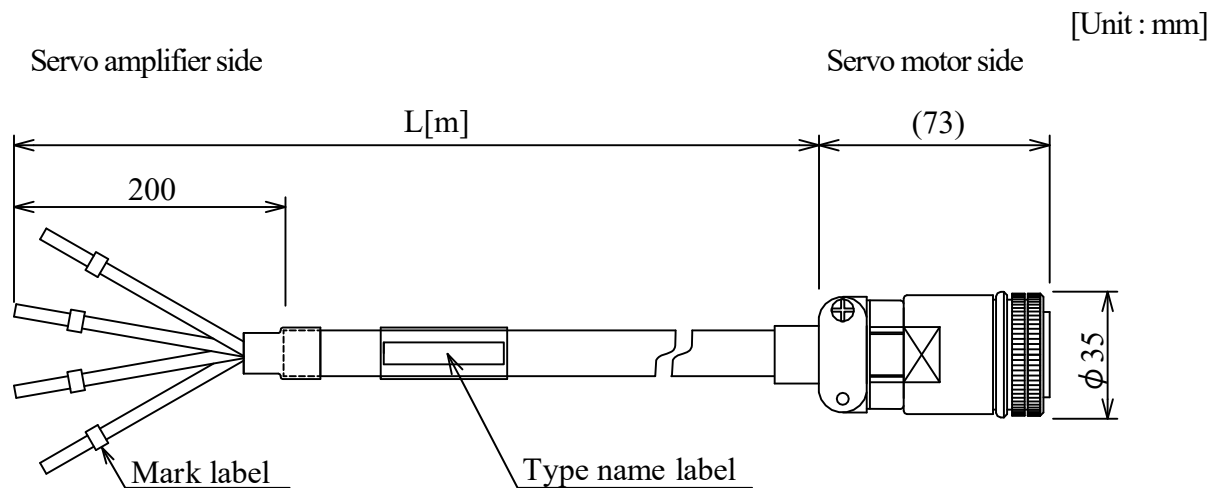
*1 It is a test outcome, and not a guaranteed value. (The performance is different according to customer's environment.)

*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.

8. STRUCTURAL DRAWING



9. OUTLINE DRAWING



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

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