

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			<i>N. Ito</i>	<i>S. Horie</i>	<i>M. Awanura</i>	<i>D. Tsubokawa</i>
B	24 Aug.,2021						
Send to				Date		Dwg	
				31 Mar.,2017		X903703D50052-F52B	
				Order			

1. SCOPE

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

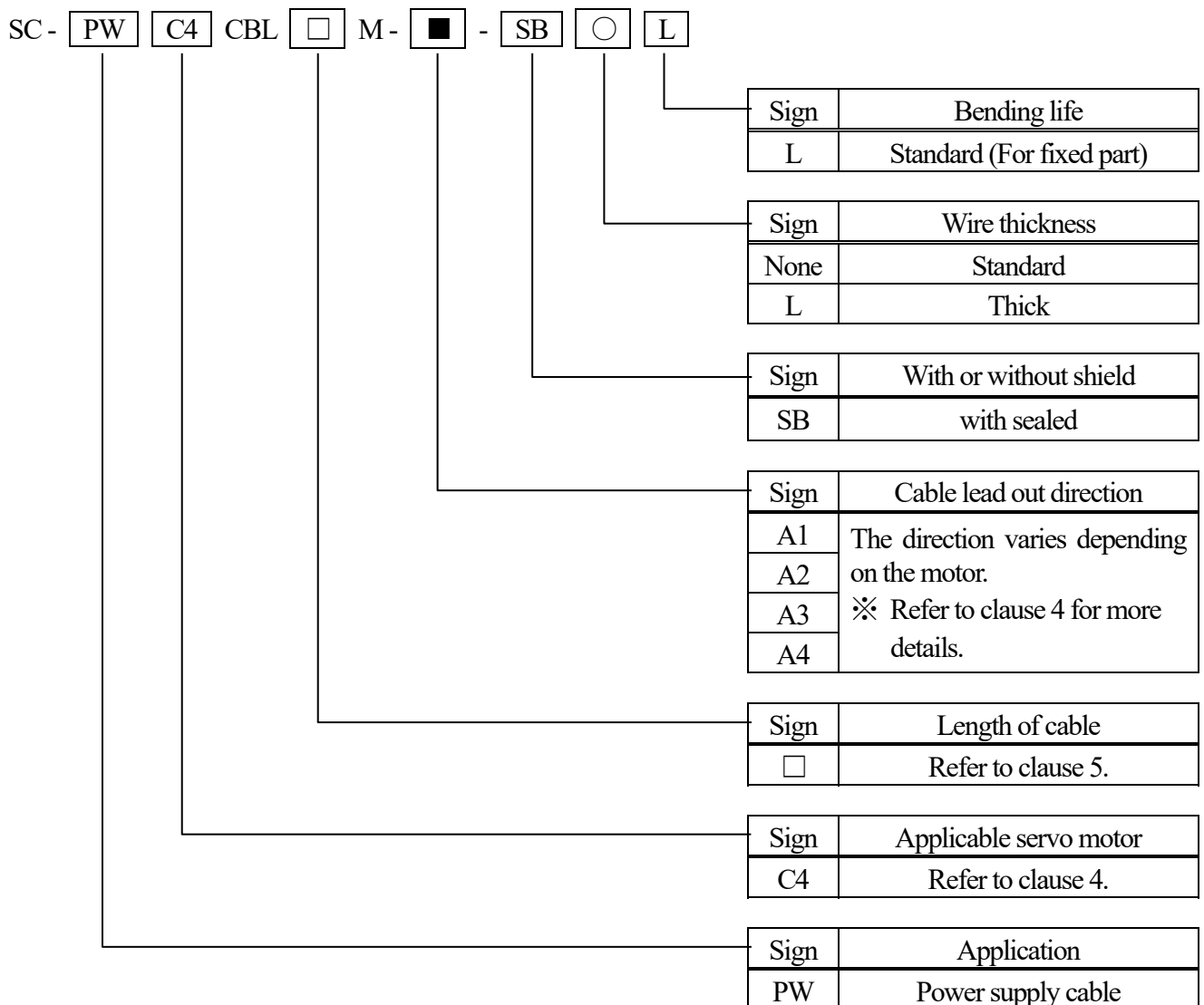
- SC-PWC4CBL□M-■-SBL
- SC-PWC4CBL□M-■-SBLL

※ Please note that the product specifications described in this specification are subject to change without notice for improvement.

※ If you need copy exactly, please contact our Sales Department.

Copy exactly ... Products made in the same process, same parts
(Only for SC-PWC4CBL□M-■-SBL)

2. CABLE TYPE



3. APPLICABLE STANDARDS

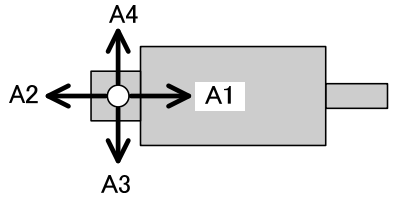
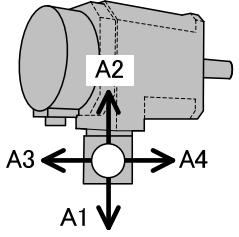
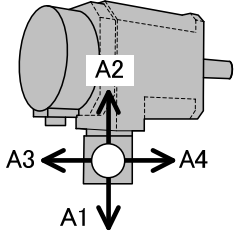
Wire part : UL standard (UL 758 : AWM)

UL Style No.	Rated	
2586	105°C	600V

(UL's Wiring Harnesses Traceability program provides traceability for this cable.)

- This cable doesn't include the toxic substances in RoHS.

4. APPLICABLE SERVO MOTOR

The end of type name	Applicable servo motor	Cable lead out direction (View from cable insertion direction)
SBL	HG-SR51, 52, 81, 102, 152, 524, 1024, 1524 motor HF-SP51, 52, 81, 102, 152, 524, 1024, 1524 motor	
SBL	HG-JR53, 73, 103, 153, 203, 534, 734, 1034, 1534, 2034, 3534 motor HF-JP53, 73, 103, 153, 203, 534, 734, 1034, 1534, 2034, 3534 motor	
SBLL	HG-JR5034 motor HF-JP5034 motor	

(Note) Depending on the situation such as installation environment or combination of cables and connectors, there is a chance not to complete installation. (Even though it's mentioned above) Please make sure the cable lead out direction before your purchase.

5. LENGTH OF CABLE

1 to 30m Specified by 1m unit

6. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWC4CBL□M-■-SB○L ×××××××

- ※ □ is a figure from 1 to 30.
- ※ ■ is cable lead out direction from A1, A2, A3, A4.
- ※ ○ is wire thickness from none, L.
- ※ ××××××× are the serial number for seven digits.

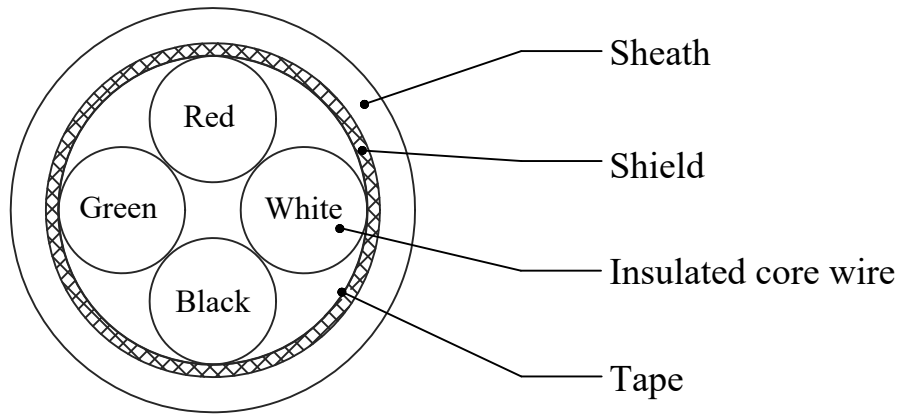
7. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification	
			SBL	SBLL
Structure		—	AWG14×4C	AWG12×4C
Conductor	Conductor size	—	AWG14	AWG12
	Outer diameter	mm	Approx.2.0	Approx.2.5
Insulation	Material	—	PVC	
	Outer diameter	mm	Approx. 3.7	Approx. 4.2
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
Cable weight		kg/km	220	290
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. CE05-8A18-10SD-D-BAS(R1) (Angle plug) CE3057-10A-1-D(R1) (Waterproof cable clamp)	
		IP rating	IP67*1	

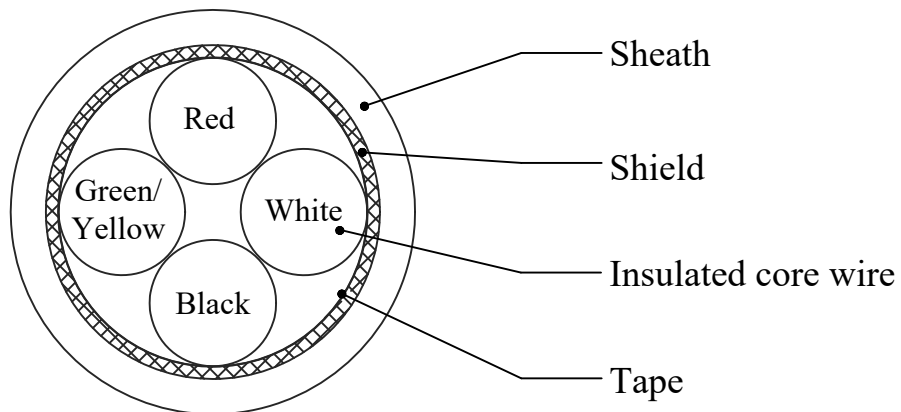
*1 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

8. STRUCTURAL DRAWING

(1) SC-PWC4CBL□M-■-SBL

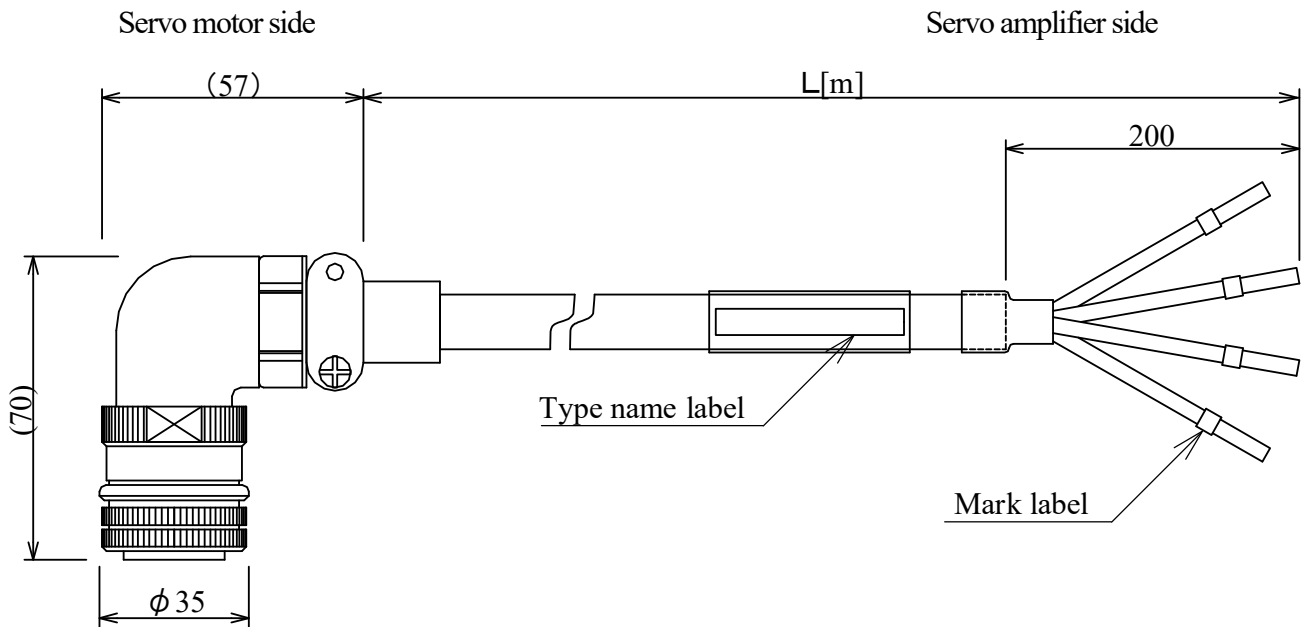


(2) SC-PWC4CBL□M-■-SBL



9. OUTLINE DRAWING

[Unit : mm]



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-■-SBL

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