

1. SCOPE

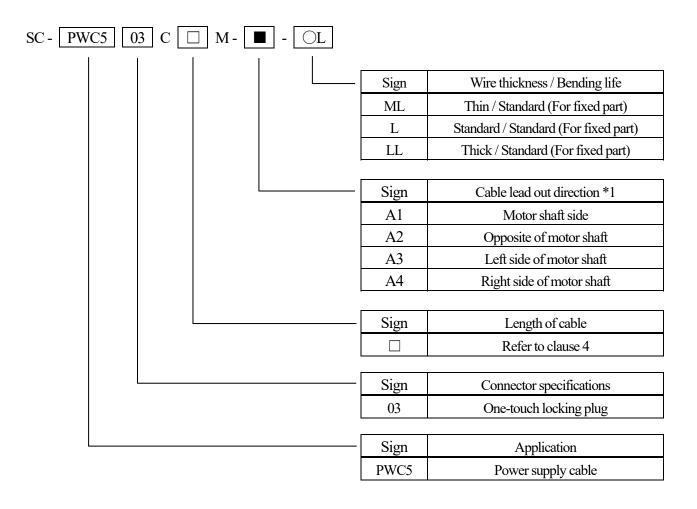
This specification covers the requirements for the General purpose AC Servo Power supply cable.

- SC-PWC503C□M-■-ML
- SC-PWC503C□M-■-L
- SC-PWC503C□M-■-LL

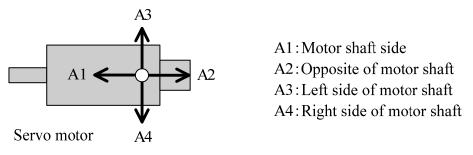
<u>* The Products covered in this specification don't include the toxic substances in RoHS2 (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB, HBCDD, DEHP, BPP, DBP).</u>

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

2. CABLE TYPE



*1:Cable lead out direction (View from cable insertion direction)



(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.

3. APPLICABLE STANDARDS

Wire part : UL standard (UL 758 : AWM)

Wire thickness	UL Style No.	Rated	
ML (Thin)	2501	105°C	600V
L (Standard)	2301		
LL (Thick)	2586		

4. LENGTH OF CABLE

1 to 100m

% The maximum cable length differs depending on the motor. Please refer to the CABLE LENGTH SELECTION TABLE "R9535021-018028-010" for more information.

5. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWC503C \square M- \blacksquare - \bigcirc L ××××××

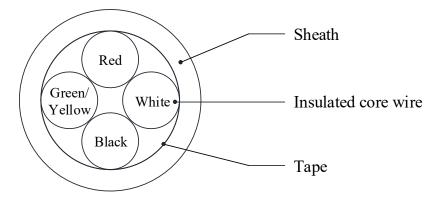
- is a figure from 1 to 100.
- % is cable lead out direction from A1, A2, A3, A4.
- % \bigcirc is wire thickness from M, none , L.
- \times \times \times \times \times \times \times are the serial number for seven digits.

Item		Unit	Specification		
			ML	L	LL
Structure		—	AWG14×4C	AWG12×4C	AWG10×4C
Conductor	Conductor size	—	AWG14	AWG12	AWG10
	Outer diameter	mm	Approx.2.0	Approx.2.5	Approx.3.1
Insulation	Material	—	PVC		
	Outer diameter	mm	Approx.3.7	Approx.4.2	Approx.4.8
Twisted	Number of insulated core wire	—	4C		
Sheath	Material	—	Flame resisting PVC		
	color	—	Black		
Overall diameter		mm	Approx. 12.2	Approx. 13.6	Approx. 13.7
Electrical re characteristics W	Insulation resistance	$M\Omega \boldsymbol{\cdot} km$	Over 10		
	Withstand voltage	V/for 1 min	AC2000		
Operating temperature range		°C	$-10 \sim +60$ (without condensation)		
Minimum bend radius		mm	6 times the overall diameter		
Flame retardant		—	UL1581 VW-1		
Connector		-			
Amplifier side		—			
Motor side		ML: Japan Aviation Electronics Industry, Ltd. JL10-8A22-22SE-EB (Angle plug) JL04-2022CK(12)-R (Waterproof cable clamp)			
	Туре	L : Japan Aviation Electronics Industry, Ltd. JL10-8A22-22SE-EB (Angle plug) JL04-2022CK(14)-R (Waterproof cable clamp)			
		J	LL: Japan Aviation Electronics Industry, Ltd. JL10-8A22-22SE-EB1 (Angle plug) JL04-2428CK(14)-RK (Waterproof cable clamp)		
	IP rating	IP67*1			

6. STRUCTURE AND CHARACTERISTICS

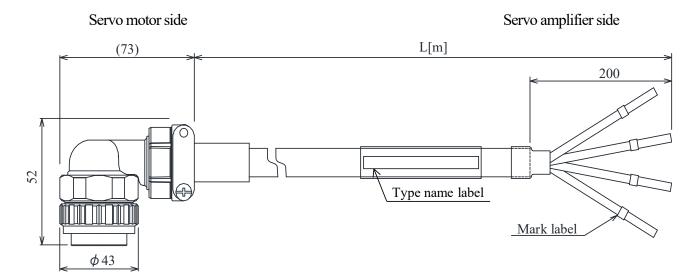
*1 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

7. STRUCTURAL DRAWING



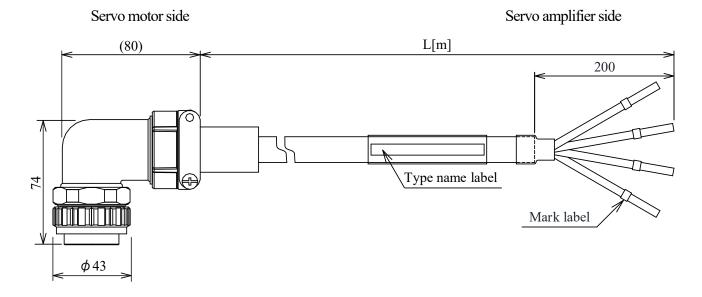
- 8. OUTLINE DRAWING
 - (1) SC-PWC503C□M-■-ML SC-PWC503C□M-■-L

[Unit:mm]



(2) SC-PWC503C□M-■-LL

[Unit:mm]



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

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