# Specification for General purpose AC Servo Power supply cable

Type SC-PWC403C□M-○L

## MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

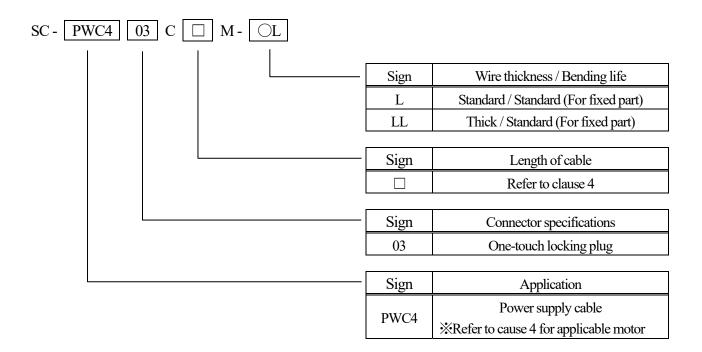
	Re	vision	Drawn	Check	Design	Approved
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#### 1. SCOPE

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

- SC-PWC403C□M-L
- SC-PWC403C□M-LL
- <u>X</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).
- \* 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.	Ra	nted
2586	105°C	600V

## 4. APPLICABLE MOTOR / LENGTH OF CABLE

Length of cable	Type name end	Amplifier power supply voltage	Applicable motor
1∼30m	L	200V	HK-ST52W, 102W, 524W, 1024W, 1724W, 2024W, 3024W motor
1, 230111	LL	200 V	HK-ST172W, 202AW, 302W, 3024W motor
21 0 .100,00	L	200V	The maximum cable length differs depending on the motor.
31~100m	LL	200 V	Please refer to the CABLE LENGTH SELECTION  TABLE "R9535021-018028-010" for more information.

## 5. EXAMPLE OF PRINTING CABLE TYPE NAME

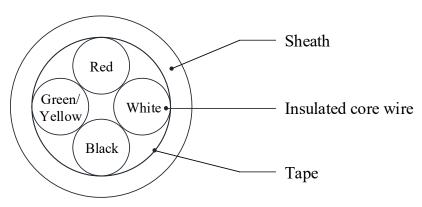
SC-	PWC403C□M-○L ××××××
*	$\square$ is a figure from 1 to 100.
*	is wire thickness from none, L.
*	×××××× are the serial number for seven digits.

## 6. STRUCTURE AND CHARACTERISTICS

Itaara		I Init	Specification		
	Item	Unit	L	LL	
Structure		_	AWG14×4C	AWG12×4C	
Conductor	Conductor size	_	AWG14	AWG12	
Conductor	Outer diameter	mm	Approx.2.0	Approx.2.5	
Insulation	Material	_	PVC		
msulation	Outer diameter	mm	Approx.3.7	Approx.4.2	
Twisted	Twisted Number of insulated core wire		4C		
C141.	Material	_	Flame resisting PVC		
Sheath	color	_	Black		
Overall diameter		mm	Approx. 11.6	Approx. 12.2	
Electrical	Electrical Insulation resistance		Over 10		
characteristics	characteristics Withstand voltage		AC2000		
Operating temperature range		°C	-10~+60 (without condensation)		
Minimum bend	radius	mm	6 times the overall diameter		
Flame retardant		_	UL1581 VW-1		
Connector					
Amplifier side		_			
Motor side	Туре	L, LL: Japan Aviation Electronics Industry, Ltd.  JL10-6A18-10SE-EB (Straight plug)  JL04-18CK(13)-R (Waterproof cable clamp)			
	IP rating	IP67*1			

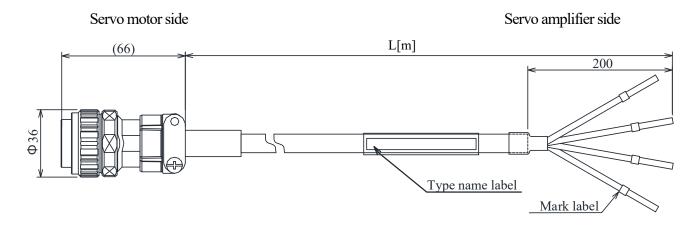
<sup>\*1</sup> The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

#### 7. STRUCTURAL DRAWING



## 8. OUTLINE DRAWING

[Unit:mm]



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

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