# Specification for General purpose AC Servo Power supply cable

Type SC-PWC501C□M-■-XH

# MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

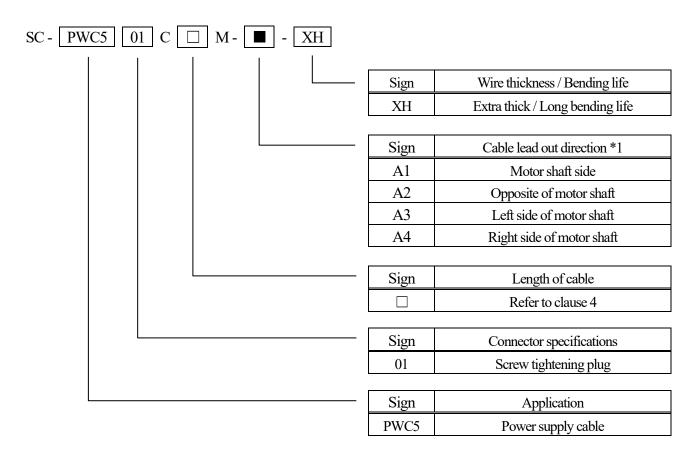
Revision					Drawn	Check	Design	Approved		
							N.Ito	S.Kariya	T.Kasahara	D.Fukushima
Send to						Da	ate	D	wg	
							7 Sep	.,2022		
							Order		X953503D70003-F01	

### 1. SCOPE

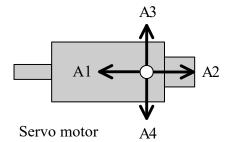
This specification covers the requirements for the General purpose AC Servo Power supply cable.

- · SC-PWC501C□M-■-XH
- \* The Products covered in this specification don't include the toxic substances in RoHS.
- \* UL's Wiring Harnesses Traceability program provides traceability for this cable.

### 2. CABLE TYPE



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



A1: Motor shaft side

A2: Opposite of motor shaft

A3: Left side of motor shaft

A4: Right side of motor shaft

(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)

UL Style No.	Rated		
2586	105°C	600V	

### 4. APPLICABLE SERVO MOTOR / LENGTH OF CABLE

1 to 100m

\*\* The maximum cable length differs depending on the motor.
Refer to the CABLE LENGTH SELECTION TABLE "R9535021-018028-010" for more information.

Refer to the CABLE SELECTION TABLE "R9535021-018028-015" for applicable motors.

### 5. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWC501C□M-■-XH ××××××

is a figure from 1 to 100.

is cable lead out direction from A1, A2, A3, A4.

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

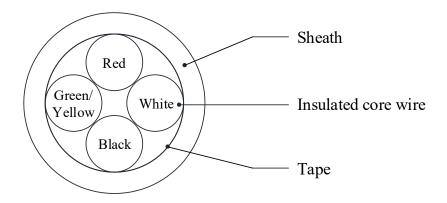
### 6. STRUCTURE AND CHARACTERISTICS

	It	tem	Unit	Specification	
W	ire				
	Structure			AWG9×4C	
	Conductor	Conductor size	_	AWG9	
	Conductor	Outer diameter	mm	Approx.4.8	
	Insulation	Material	_	PVC	
-	Ilisulation	Outer diameter	mm	Approx.7.6	
	Twisted Number of insulated core wire		_	4C	
	C141.	Material	_	Flame resisting PVC	
	Sheath	color	_	Black	
	Overall diameter	•	mm	Approx. 22.1	
	Cable weight	Cable weight		670	
	Electrical	Insulation resistance	$M\Omega$ · km	Over 10	
	characteristics	Withstand voltage	V / for 5 min	AC2000	
	Minimum bend radius  Bending life Flame retardant		mm	6 times the overall diameter	
			_	Over 1 million times*1 (by Minimum bend radius)	
			_	UL1581 VW-1	
Co	onnector				
	Amplifier side			_	
	Motor side		Туре	Japan Aviation Electronics Industry, Ltd. JL04V-6A22-22SE-R (Plug) SANKEI MANUFACTURING CO.LTD, C29KD2422 (KEIGLAND Type C2)	
			IP rating	IP67*2	
Ca	able harness	T	1		
	Environment	Ambient temperature	°C	0 to 60 (Without freezing)	
		Ambient humidity	%RH	5 to 95 (Without condensation)	
		Ambience	_	Indoors (no direct sunlight), no corrosive gas, inflammable gas, oil mist, or dust	
	Electrical	Insulation resistance	MΩ · km	Over 10	
	characteristics	Withstand voltage	V/for 1 min	AC2000	

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

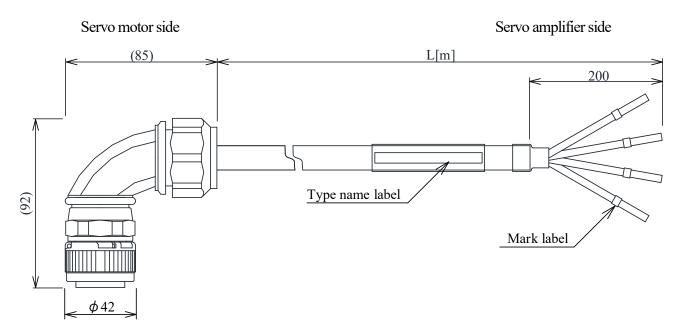
<sup>\*2</sup> The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

# 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