Specification
for
General purpose AC Servo
Power supply cable

Type SC-PWC501C□M-XL

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

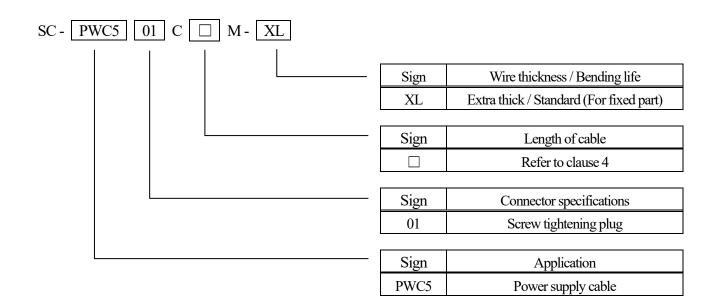
Revision					Drawn	Check	Design	Approved	
						N.Ito	S.Kariya	T.Kasahara	D.Fukushima
Send to					Da	ate	D	wg	
						7 Sep	.,2022		
						Or	der	X953503D	70003-E98

1. SCOPE

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

- · SC-PWC501C□M-XL
- * 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



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

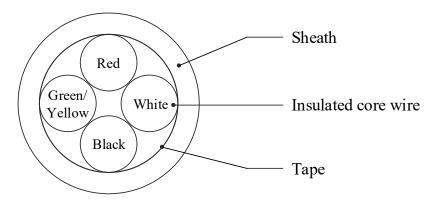
SC-	PWC501C□M-XL ××××××
**	\square is a figure from 1 to 100.
*	×××××× are the serial number for seven digits.

6. STRUCTURE AND CHARACTERISTICS

	It	em	Unit	Specification	
W	ire			•	
	Structure		_	AWG8×4C	
	Conductor	Conductor size	_	AWG8	
	Conductor	Outer diameter	mm	Approx.4.5	
	Insulation	Material	_	PVC	
	Hisulation	Outer diameter	mm	Approx.7.3	
	Twisted	Number of insulated core wire	_	4C	
-	CI 1	Material	_	Flame resisting PVC	
	Sheath	color	_	Black	
-	Overall diameter	•	mm	Approx. 21.3	
	Cable weight		kg/km	670	
	Electrical	Insulation resistance	$M\Omega$ · km	Over 10	
	characteristics	Withstand voltage	V / for 5 min	AC2000	
	Minimum bend radius Flame retardant		mm	6 times the overall diameter	
			_	UL1581 VW-1	
Co	onnector				
	Amplifier side			_	
	Motor side	side		Japan Aviation Electronics Industry, Ltd. JL04V-6A22-22SE-R (Straight plug) SANKEI MANUFACTURING CO.LTD, C2KD2422 (KEIGLAND Type C2)	
			IP rating	IP67*1	
Cable harness					
		Ambient temperature	°C	0 to 60 (Without freezing)	
	Environment	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	

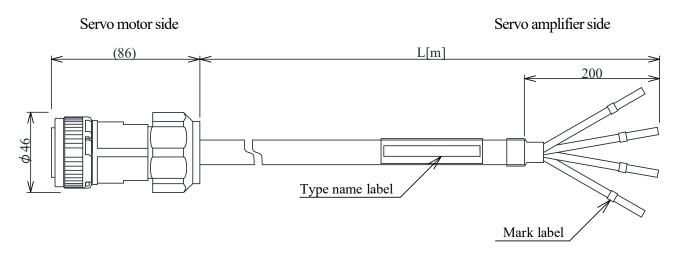
^{*1} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

7. STRUCTURAL DRAWING



8. OUTLINE DRAWING

[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