Specification for General purpose AC Servo Power supply cable

Type SC-PWC501C□M-SBXL

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

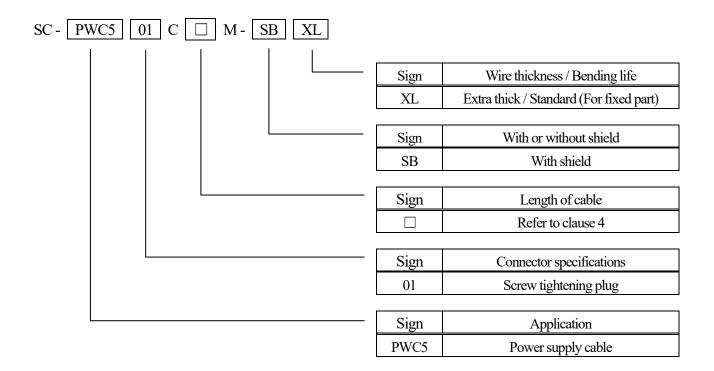
		Rev	ision			Drawn	Check	Design	Approved
						N.Ito	S.Kariya	T.Kasahara	D.Fukushima
Send to				Da	ate	D _'	wg		
						7 Sep	.,2022		
						Or	der	X953503D	070003-F02

1. SCOPE

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

- SC-PWC501C□M-SBXL
- * 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

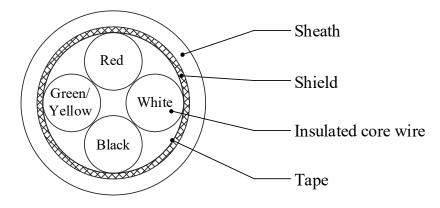
SC-	-PWC501C□M-SBXL	××××××
*	☐ is a figure from 1 to	100.
:	xxxxxxx are the serial	number for seven digits

6. STRUCTURE AND CHARACTERISTICS

	It	tem	Unit	Specification		
Wire						
Structure	Structure		_	AWG8×4C		
Conductor	-	Conductor size	_	AWG8		
Conductor	ľ	Outer diameter	mm	Approx.4.5		
Insulation		Material		PVC		
Insulation		Outer diameter	mm	Approx.7.3		
Twisted	Number of		_	4C		
Shield		Material	_	Tin coated copper braid		
Sheath		Material	_	Flame resisting PVC		
Sneam		color	_	Black		
Overall dia	ameter	•	mm	Approx. 22.3		
Cable wei	ght		kg/km	790		
Electrical		Insulation resistance	$M\Omega$ · km	Over 10		
characteris	characteristics Withstand voltage Minimum bend radius Flame retardant		V / for 5 min	AC2000		
Minimum			mm	6 times the overall diameter		
Flame reta			_	UL1581 VW-1		
Connector	Connector					
Amplifier	side					
Motor side	Motor 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	Cable harness					
		Ambient temperature	°C	0 to 60 (Without freezing)		
Environm	ent	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	$M\Omega \cdot km$	Over 10		
characteris	characteristics Withstand voltage		V/for 1 min	AC2000		

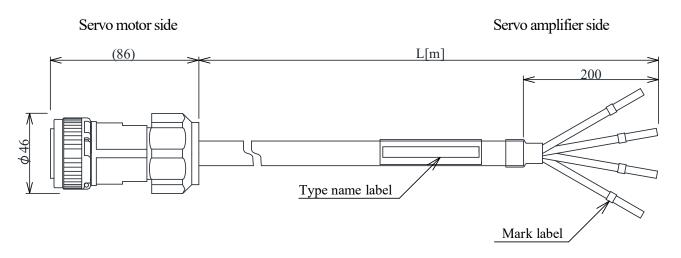
^{*1} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

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