Specification for General purpose AC Servo Power supply cable

Type SC-PWC501C□M-■-SBXL

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

Revision Drawn Check Design Approved

N.Ito S.Kariya T.Kasahara D.Fukushima

Send to Date Dwg

7 Sep.,2022

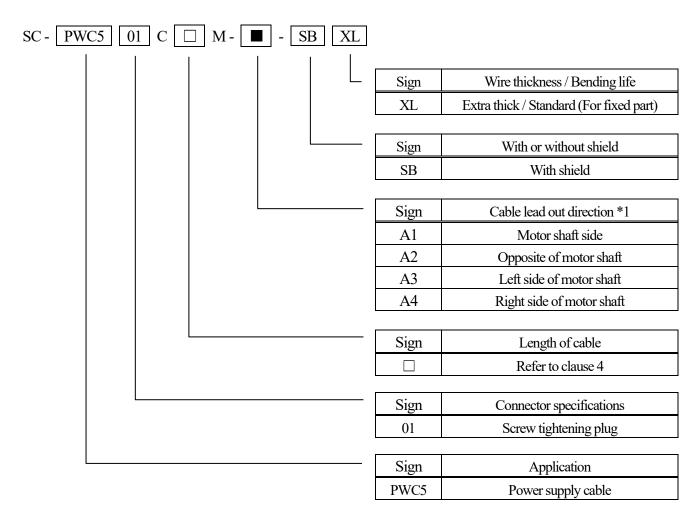
Order X953503D70003-F04

1. SCOPE

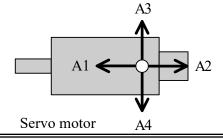
This specification covers the requirements for the General purpose AC Servo Power supply cable.

- 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



*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

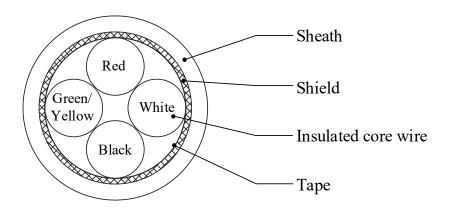
SC-	PWC501C□M-■-SBXL ××××××
*	\square is a figure from 1 to 100.
*	■ is cable lead out direction from A1, A2, A3, A4.
*	×××××× are the serial number for seven digits.

6. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification	
W	ire			
	Structure			AWG8×4C
	Conductor	Conductor size	_	AWG8
	Conductor	Outer diameter	mm	Approx.4.5
	Insulation	Material	_	PVC
		Outer diameter	mm	Approx.7.3
	Twisted	Number of insulated core wire	_	4C
	Shield	Material	_	Tin coated copper braid
	Sheath	Material	_	Flame resisting PVC
	Sneath	color	_	Black
	Overall diameter Cable weight		mm	Approx. 22.3
			kg/km	790
	Electrical	Insulation resistance	$M\Omega \cdot km$	Over 10
	characteristics	Withstand voltage	V / for 5 min	AC2000
	Minimum bend radius Flame retardant		mm	6 times the overall diameter
			_	UL1581 VW-1
C	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*1
Cable harness			T	
		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

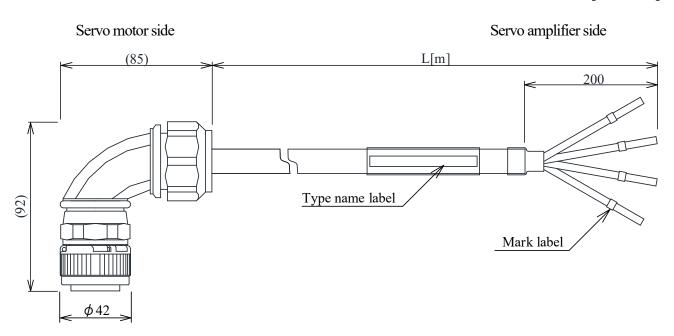
^{*1} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

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