Specification for General purpose AC Servo Power supply cable

Type SC-PWC503C \square M- \bigcirc L

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

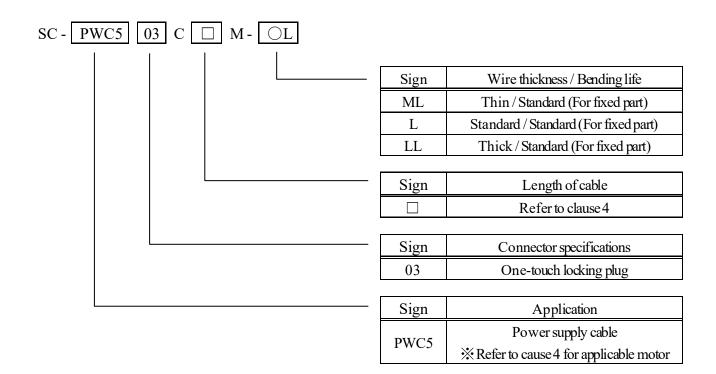
	Revision						Drawn	Check	Design	Approved	
A	A 24 Mar.,2020										
В	6 Sep.,2022		22				N.Ito	S.Kariya	T.Kasahara	D.Fukushima	
	Send to						Date		Dwg		
								24 Ap	r.,2019		
								Or	der	X953503D	70003-E22B

1. SCOPE

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

- SC-PWC503C□M-ML
- SC-PWC503C□M-L
- SC-PWC503C□M-LL
- * 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 SERVOMOTOR / 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

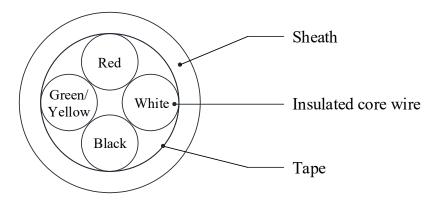
$SC-PWC503C \square M- \bigcirc L \times \times \times \times \times \times$					
*	\square is a figure from 1 to 100.				
*	\bigcirc is wire thickness from M , none , L.				
※	××××××× are the serial number for seven digits				

6. STRUCTURE AND CHARACTERISTICS

	T4		TT '4	Specification			
	Item	1	Unit	ML	L	LL	
Wire							
St	Structure		_	AWG14×4C	AWG12×4C	AWG10×4C	
C	onductor	Conductor size	_	AWG14	AWG12	AWG10	
	onducioi	Outer diameter	mm	Approx.2.0	Approx.2.5	Approx.3.1	
In	sulation	Material	_	PVC			
	Sulation	Outer diameter	mm	Approx.3.7 Approx.4.2 App		Approx.4.8	
Tv	Twisted Number of insulated core wire			4C			
CI	.1	Material	_	Flame resisting PVC			
Sn	neath	color	_	Black			
O	verall diameter	•	mm	Approx. 11.6	Approx. 12.2	Approx. 13.7	
Ca	able weight		kg/km	200	250	330	
El	Insulation resistance		MΩ · km	Over 10			
	naracteristics	Withstand voltage	V / for 5 min	AC2000			
M	inimum bend	radius	mm	6 times the overall diameter			
Fla	ame retardant		_	UL1581 VW-1			
Conn	nector						
Aı	mplifier side			_			
M	otor side		Туре	ML, L: Japan Aviation Electronics Industry, Ltd. JL10-6A22-22SE-EB (Straight plug) JL04-2022CK(12)-R (Waterproof cable clamp) LL: Japan Aviation Electronics Industry, Ltd. JL10-6A22-22SE-EB (Straight plug) JL04-2022CK(14)-R (Waterproof cable clamp)			
			IP rating	IP67*1			
Cable hamess							
	Environment	Ambient temperature	°C	0 to 60 (Without freezing)			
Er		Ambient humidity	%RH	5 to 95 (Without condensation)			
		Ambience	_	Indoors (no direct sunlight), no corrosive gas, inflammable gas, oil mist, or dust		ve gas,	
El	lectrical	Insulation resistance	MΩ · km	Over 10			
ch *1	naracteristics	Withstand voltage	V/for 1 min	AC2000			

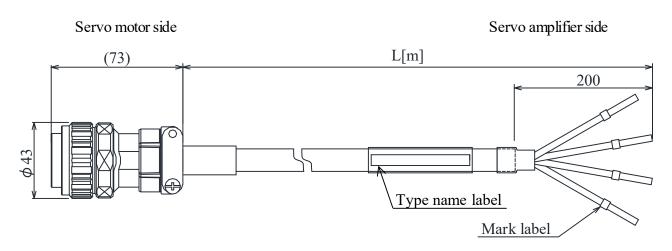
^{*1} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

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