Specification for General purpose AC Servo Power supply cable

Type SC-PWC403C□M-○H

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

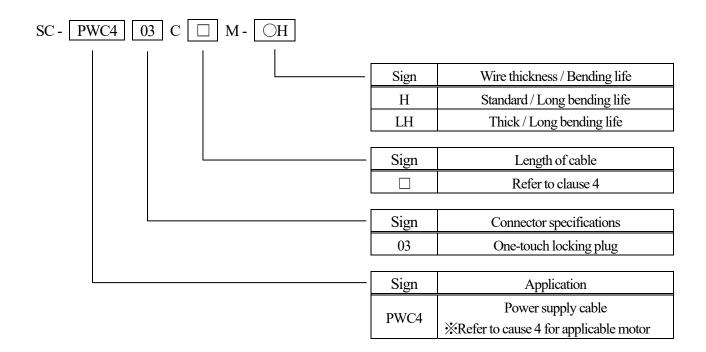
	Revision				Drawn	Check	Design	Approved
A	24 Mar.,2020				n.Ito	J. Kariya	J.minenaga	D. Tubushim
	Se	end to			Da	ate	D	wg
					24 Ap	r.,2019		
					Or	der	X953503D7	70003-E15A

1. SCOPE

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

- · SC-PWC403C□M-H
- SC-PWC403C□M-LH
- <u>**</u> The Products covered in this specification don't include the toxic substances in RoHS2 (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB, HBCDD, DEHP, BPP, DBP).

2. CABLE TYPE



3. APPLICABLE STANDARDS

Wire part: UL standard (UL 758: AWM)

UL Style No.	Ra	ted
2586	105°C	600V

4. APPLICABLE MOTOR / LENGTH OF CABLE

Length of cable	Type name end	Amplifier power supply voltage	Applicable motor
1~30m	Н	200V	HK-ST52W, 102W, 524W, 1024W, 1724W, 2024W, 3024W motor
1, 230111	LH	200 V	HK-ST172W, 202AW, 302W, 3024W motor
21 0 .100m	Н	200V	The maximum cable length differs depending on the motor.
31~100m	LH		Please refer to the CABLE LENGTH SELECTION TABLE "R9535021-018028-010" for more information.

5. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-	PWC403C□M-○H ××××××
*	\square is a figure from 1 to 100.
*	is wire thickness from none, L.
*	×××××× are the serial number for seven digits.

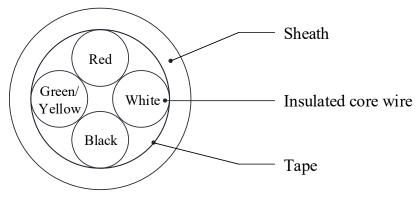
6. STRUCTURE AND CHARACTERISTICS

	Itaara		Specification		
	Item	Unit	Н	LH	
Structure		_	AWG15×4C	AWG12×4C	
Candratan	Conductor size	_	AWG15	AWG12	
Conductor	Outer diameter	mm	Approx.2.0	Approx.2.8	
Insulation	Material	_	ETFE		
msulation	Outer diameter	mm	Approx.2.6	Approx.3.6	
Twisted	Number of insulated core wire		4C		
G1 .1	Material	_	Flame resisting PVC		
Sheath	color	_	Bla	ack	
Overall diamete	r	mm	Approx. 8.6	Approx. 10.9	
Electrical	Insulation resistance	$M\Omega \cdot km$	Over 100		
characteristics	acteristics Withstand voltage		AC2000		
Operating temporating	aratura ranga	°C	-10~+60		
1 0 1			(without condensation)		
Minimum bend	radius	mm	6 times the overall diameter		
Bending life		_	Over 1 million times*1		
			(by Minimum bend radius)		
Flame retardant		_	UL1581 VW-1		
Connector		1			
Amplifier side		_			
		H: Japan Aviation Electronics Industry, Ltd.			
	Туре	JL10-6A18-10SE-EB (Straight plug)			
		JL04-18CK(10)-R (Waterproof cable clamp)			
Motor side		LH: Japan Aviation Electronics Industry, Ltd.			
		JL10-6A18-10SE-EB (Straight plug)			
		JL04-18CK(13)-R (Waterproof cable clamp)			
	IP rating	IP67*2			

^{*1} It is a test outcome, and not a guaranteed value. (The performance is different according to customer's environment.)

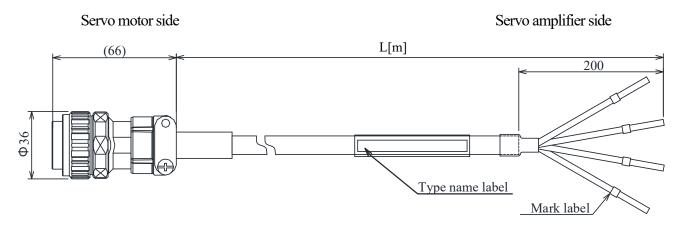
^{*2} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

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		