Specification for General purpose AC Servo Power supply cable

Type SC-PWC403C□M-■-SB○H

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

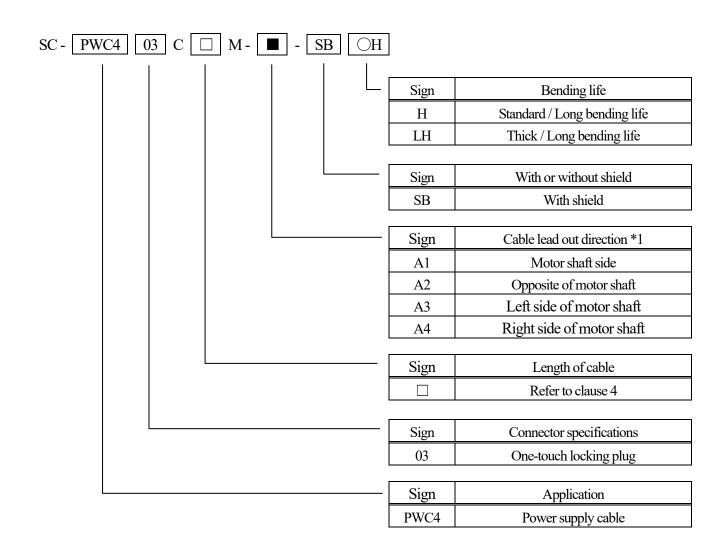
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		n. Ito	Stariyo	L. mlnenaga	D. Juliehin	
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		24 Apr	r., 2019			
			Order		X953503D70003-E21	
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1. SCOPE

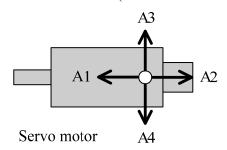
This specification covers the requirements for the General purpose AC Servo Power supply cable.

- SC-PWC403C□M-■-SBH
- SC-PWC403C□M-■-SBLH
- <u>X</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



*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)

W	Fire thickness	UL Style No.	Rated		
H (Standard)		2506	1059C	600V	
I	LH (Thick)	2586	105°C	000 v	

4. LENGTH OF CABLE

1 to 100m

**The maximum cable length differs depending on the motor.
Please refer to the CABLE LENGTH SELECTION TABLE "R9535021-018028-010" for more information.

5. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWC403C ☐ M-■-SB ☐ H ××××××

is a figure from 1 to 100.

is cable lead out direction from A1, A2, A3, A4.

is wire thickness from none, L.

××××××× are the serial number for seven digits.

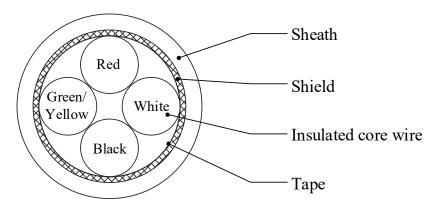
6. STRUCTURE AND CHARACTERISTICS

Item		I I!4	Specification		
		Unit	Н	LH	
Structure		_	AWG15×4C	AWG12×4C	
Conductor	Conductor size	_	AWG15	AWG12	
	Outer diameter	mm	Approx.2.0	Approx.2.6	
Insulation	Material	_	ETFE		
	Outer diameter	mm	Approx.2.8	Approx.3.4	
Twisted	Number of insulated core wire	_	4C		
Shield	Material	_	Tin coated copper braid		
CI d	Material	_	Flame resisting PVC		
Sheath	color	_	Black		
Overall diameter	Internal unit	mm	Approx. 9.9	Approx. 11.5	
Electrical	Insulation resistance	MΩ·km	Over 100		
characteristics	Withstand voltage	V / for 1 min	AC2000		
Operating temperature range		°C	-10~+60 (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					
Amplifier side		_			
Motor side	Туре	H: Japan Aviation Electronics Industry, Ltd.			
		JL10-8A18-10SE-EB (Angle plug)			
		JL04-18CK(10)-R (Waterproof cable clamp)			
		LH: Japan Aviation Electronics Industry, Ltd.			
		JL10-8A18-10SE-EB (Angle 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.)

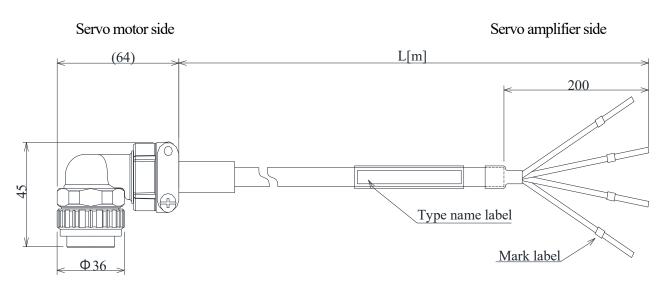
^{*2} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

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	