

Specification  
for  
General purpose AC Servo  
Power supply cable

Type SC-PWC403C□M-SB○H

MITSUBISHI ELECTRIC  
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Note

Revision								Drawn	Check	Design	Approved
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Send to								Date		Dwg	
								24 Apr., 2019		X953503D70003-E17	
								Order			

## 1. SCOPE

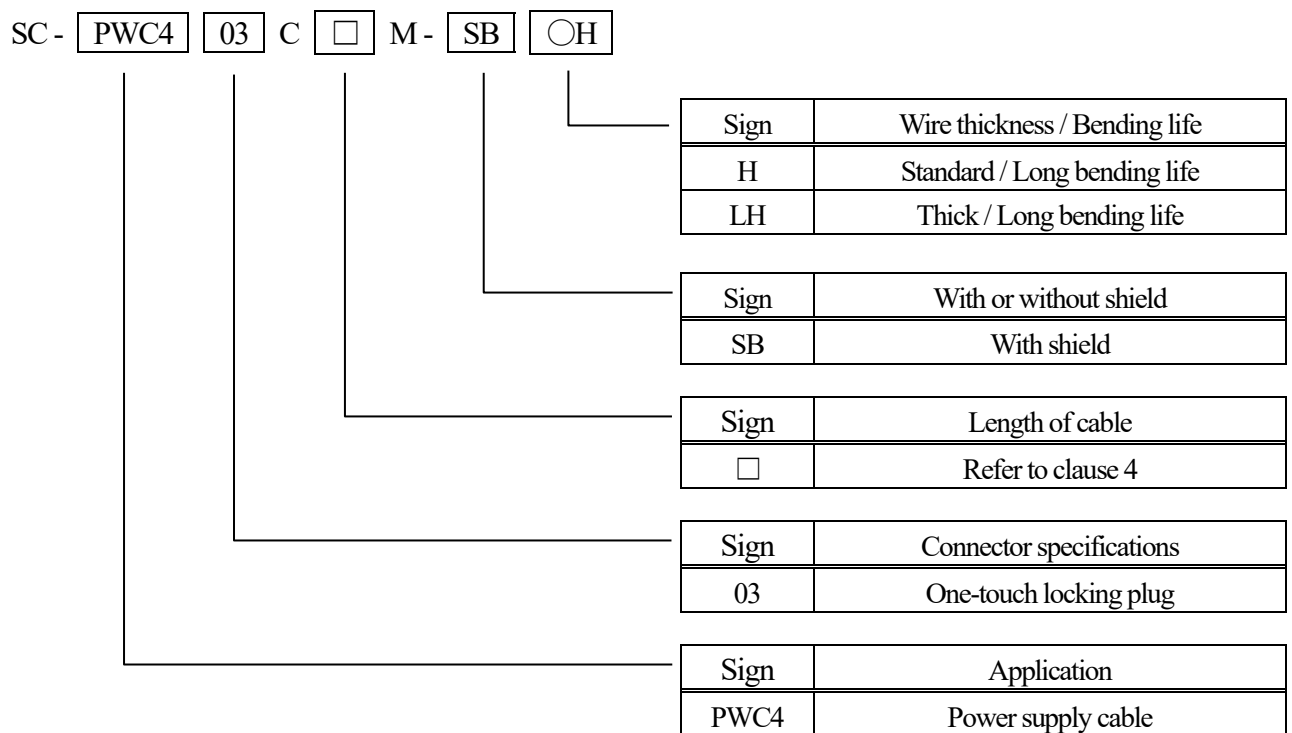
This specification covers the requirements for the General purpose AC Servo Power supply cable.

- SC-PWC403C□M-SBH
- SC-PWC403C□M-SBLH

※ 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).

※ UL's Wiring Harnesses Traceability program provides traceability for this cable.

## 2. CABLE TYPE



## 3. APPLICABLE STANDARDS

Wire part : UL standard (UL 758 : AWM)

Wire thickness	UL Style No.	Rated	
H (Standard)	2586	105°C	600V
LH (Thick)			

#### 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    xxxxxxxx

- ※ □ is a figure from 1 to 100.
- ※ ○ is wire thickness from none , L.
- ※ xxxxxxxx are the serial number for seven digits.

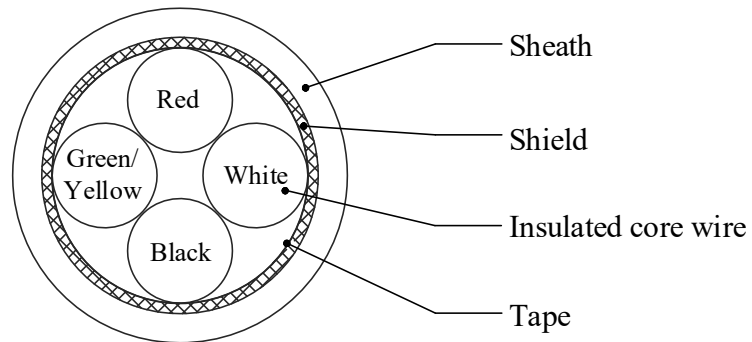
## 6. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification	
			H	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	
Sheath	Material	—	Flame resisting PVC	
	color	—	Black	
Overall diameter		mm	Approx. 9.9	Approx. 11.5
Electrical characteristics	Insulation resistance	MΩ・km	Over 100	
	Withstand voltage	V / for 1 min	AC2000	
Operating temperature range		℃	-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	Type	H : Japan Aviation Electronics Industry, Ltd. JL10-6A18-10SE-EB (Straight plug) JL04-18CK(10)-R (Waterproof cable clamp)		
		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. )

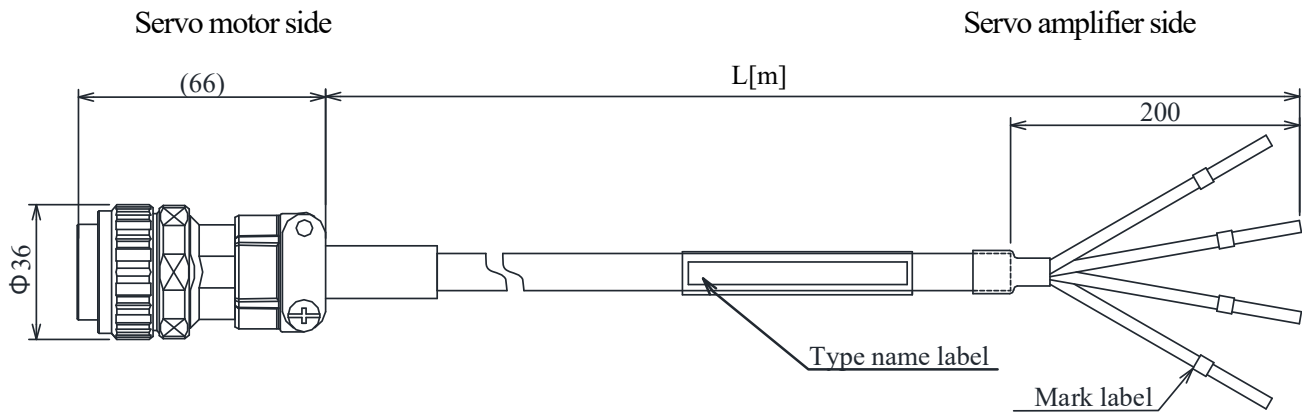
\*2 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

## 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
E	Green / Yellow