

Specification  
for  
General purpose AC Servo  
Power supply cable

Type SC-PWC403C□M-SB○L

MITSUBISHI ELECTRIC  
SYSTEM & SERVICE CO.,LTD

Note

Revision								Drawn	Check	Design	Approved
								N. Ito	S. Kuriyama	S. Minenaga	D. Tsubouchi
Send to								Date		Dwg	
								24 Apr., 2019		X953503D70003-E16	
								Order			

Wire thickness	UL Style No.	Rated	
L (Standard)	2586	105°C	600V
LL (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○L    xxxxxxx

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

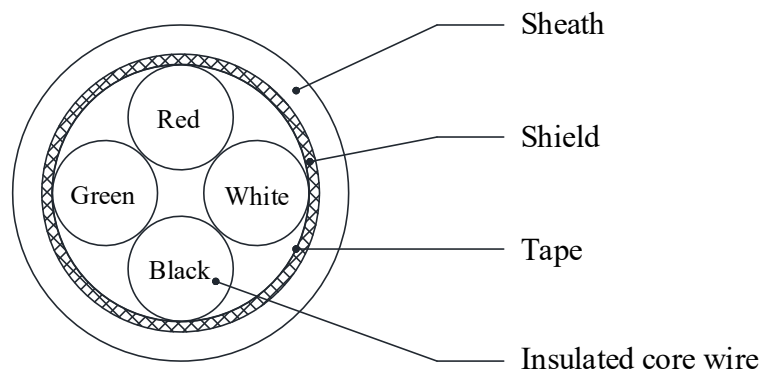
## 6. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification	
			L	LL
Structure		—	AWG14×4C	AWG12×4C
Conductor	Conductor size	—	AWG14	AWG12
	Outer diameter	mm	Approx.2.0	Approx.2.5
Insulation	Material	—	PVC	
	Outer diameter	mm	Approx.3.7	Approx.4.2
Twisted	Number of insulated core wire	—	4C	
Shield	Material	—	Tin coated copper braid	
Sheath	Material	—	Flame resisting PVC	
	color	—	Black	
Overall diameter		mm	Approx. 11.5	Approx. 12.9
Electrical characteristics	Insulation resistance	MΩ・km	Over 10	
	Withstand voltage	V / for 1 min	AC2000	
Operating temperature range		℃	-10～+60 (without condensation)	
Minimum bend radius		mm	6 times the overall diameter	
Flame retardant		—	UL1581 VW-1	
Connector				
Amplifier side		—		
Motor side	Type	L , LL : Japan Aviation Electronics Industry, Ltd. JL10-6A18-10SE-EB (Straight plug) JL04-18CK(13)-R (Waterproof cable clamp)		
	IP rating	IP67 <sup>*1</sup>		

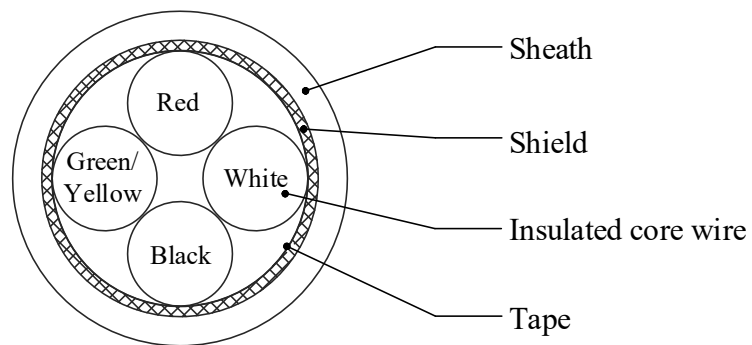
\*1 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

## 7. STRUCTURAL DRAWING

(1)SC-PWC403C□M-SBL

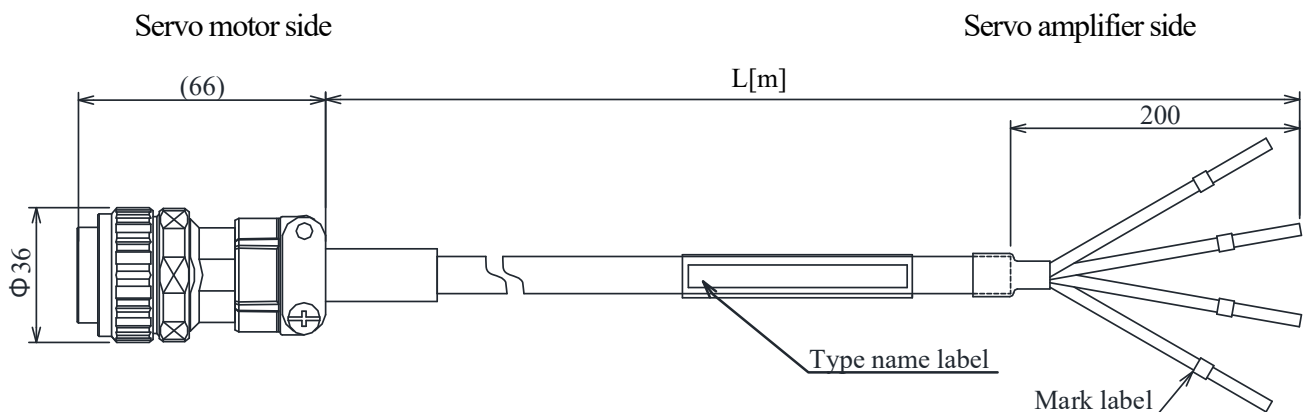


(2)SC-PWC403C□M-SBLL



## 8. OUTLINE DRAWING

[Unit : mm]



Refer to the following table for mark label and insulation color.

(1)SC-PWC403C□M-SBL

Mark label	Insulation color
U	Red
V	White
W	Black
E	Green

(2)SC-PWC403C□M-SBLL

Mark label	Insulation color
U	Red
V	White
W	Black
E	Green / Yellow