# Specification for General purpose AC Servo Power supply cable

Type SC-PWC503JDC□M-SBLH

# MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

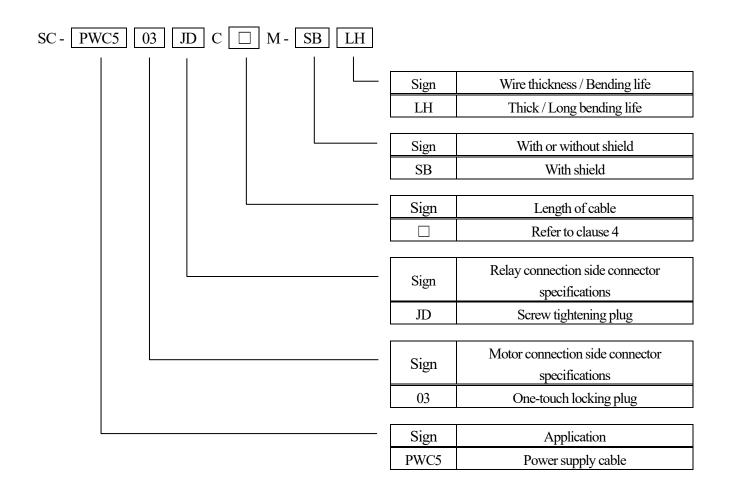
Revision					Drawn	Check	Design	Approved
					N.Ito	S.Kariya	T.Kasahara	D.Fukushima
Send to					Da	ate	D	wg
					8 Sep	.,2022		
					Or	der	X953503D	70003-E89

### 1. SCOPE

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

- SC-PWC503JDC□M-SBLH
- \* The Products covered in this specification don't include the toxic substances in RoHS.

### 2. CABLE TYPE



### 3. APPLICABLE STANDARDS

Wire part: UL standard (UL 758: AWM)

UL Style No.	Rated		
2586	105°C	600V	

### 4. APPLICABLE SERVO MOTOR / LENGTH OF CABLE

1 to 100m

- \*The maximum length of this cable varies depending on the motor model and amplifier side cable to be combined. Please contact us for more information.
- % Refer to the CABLE SELECTION TABLE "R9535021-018028-015" for applicable motors and connection cables.

### 5. EXAMPLE OF PRINTING CABLE TYPE NAME

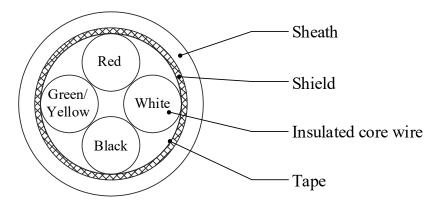
### 6. STRUCTURE AND CHARACTERISTICS

	Item	1	Unit	Specification		
W	Vire Vire					
	Structure		_	AWG10×4C		
	Candratan	Conductor size	_	AWG10		
	Conductor	Outer diameter	mm	Approx.3.0		
	Tu and ati an	Material	_	PVC		
	Insulation	Outer diameter	mm	Approx.4.7		
		Number of		4C		
	Twisted	insulated	_			
		core wire				
	Shield Material		_	Tin coated copper braid		
	Sheath	Material	_	Flame resisting PVC		
	Silcaui	color	_	Black		
	Overall diameter		mm	Approx. 14.8		
	Cable weight		kg/km	410		
		Insulation	MΩ · km	Over 10		
	Electrical characteristics	resistance				
		Withstand	V / for	AC2000		
	voltage  Minimum bend radius		5 min	( ) 1 11 11 11 11 11 11 11 11 11 11 11 11		
		radius	mm	6 times the overall diameter		
	Bending life		_	Over 1 million times*1(by Minimum bend radius)		
	Flame retardant		_	UL1581 VW-1		
C	onnector		<u> </u>	DDV I (1		
				DDK Ltd. D/MS3101A22-22P(D263) (Cable receptacle)		
	Amplifier side		Type	CE02-22BS-S-D(R1) (Waterproof straight back shell)		
	r and and			CE3057-12A-1-D(R1) (Cable clamp)		
			IP rating	IP67*2		
				Japan Aviation Electronics Industry, Ltd.		
	Motor side		Type	JL10-6A22-22SE-EB (Straight plug)		
	Wiotor side			JL04-2022CK(14)-R (Waterproof cable clamp)		
			IP rating	IP67*2		
Cable harness						
	Environment	Ambient	°C	0 to 60 (Without freezing)		
		temperature		<i>S</i>		
		Ambient humidity	%RH	5 to 95 (Without condensation)		
		Ambience	_	Indoors (no direct sunlight), no corrosive gas, inflammable gas, oil mist, or dust		
	Electrical	Insulation resistance $M\Omega \cdot km$		Over 10		
	characteristics	Withstand voltage	V / for 1 min	AC2000		

<sup>\*1</sup> It is a test outcome, and not a guaranteed value. (The performance is different according to customer's environment.)

<sup>\*2</sup> 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]

