Specification for General purpose AC Servo Power supply cable

Type SC-PWC503JDC□M-SBLL

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

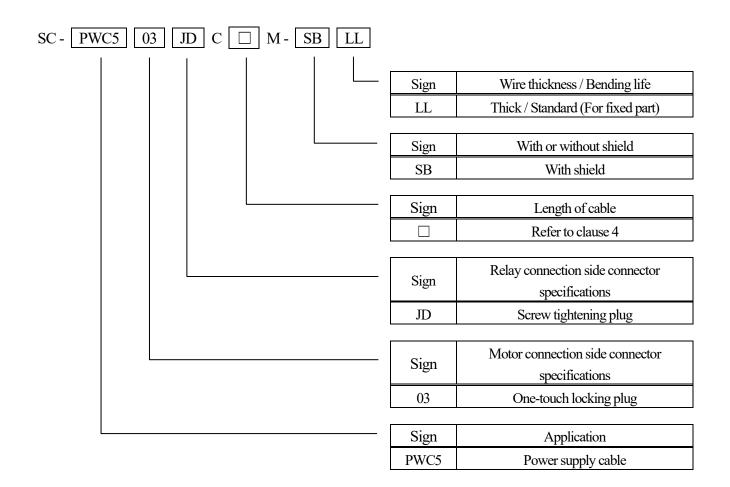
Revision						Drawn	Check	Design	Approved	
							N.Ito	S.Kariya	T.Kasahara	D.Fukushima
Send to						Da	ate	D ₁	wg	
							8 Sep	.,2022		
							Or	der	X953503D	070003-E88

1. SCOPE

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

- SC-PWC503JDC□M-SBLL
- * 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.	Ra	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.

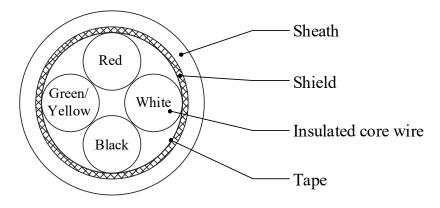
5. EXAMPLE OF PRINTING CABLE TYPE NAME

6. STRUCTURE AND CHARACTERISTICS

	Iten	n	Unit	Specification		
W	/ire					
	Structure	Structure		AWG10×4C		
	G 1 4	Conductor size	_	AWG10		
	Conductor	Outer diameter	mm	Approx.3.1		
	T 1.4	Material	_	PVC		
	Insulation	Outer diameter	mm	Approx.4.8		
		Number of		•		
	Twisted	insulated	_	4C		
		core wire				
	Shield Material		_	Tin coated copper braid		
	C141.	Material	_	Flame resisting PVC		
	Sheath	color	_	Black		
	Overall diameter	•	mm	Approx. 14.5		
	Cable weight		kg/km	400		
	Electrical	Insulation resistance	MΩ · km	Over 10		
	characteristics	Withstand	V / for	AC2000		
		voltage	5 min	AC2000		
	Minimum bend	radius	mm	6 times the overall diameter		
	Flame retardant		_	UL1581 VW-1		
С	onnector					
	Amplifier side		Туре	DDK Ltd. D/MS3101A22-22P(D263) (Cable receptacle) CE02-22BS-S-D(R1) (Waterproof straight back shell) CE3057-12A-1-D(R1) (Cable clamp)		
			IP rating	IP67*1		
	Motor side		Туре	Japan Aviation Electronics Industry, Ltd. JL10-6A22-22SE-EB (Straight plug) JL04-2022CK(14)-R (Waterproof cable clamp)		
			IP rating	IP67*1		
C	able harness					
	Environment	Ambient temperature	°C	0 to 60 (Without freezing)		
		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	MΩ · km	Over 10		
	characteristics	Withstand voltage	V / for 1 min	AC2000		

^{*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



8. OUTLINE DRAWING

[Unit:mm]

