Specification for General purpose AC Servo Power supply cable

Type SC-PWS5JCBL□M-■-L

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

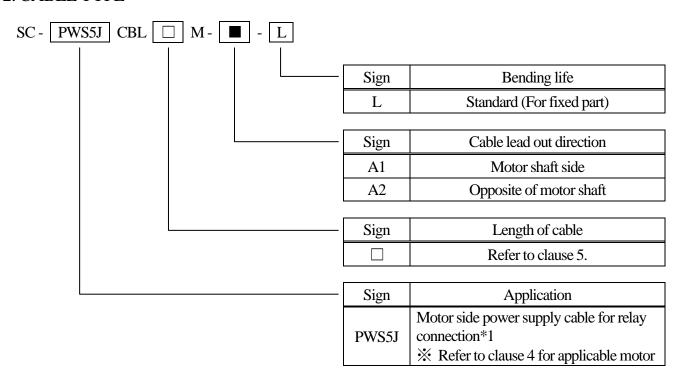
	Revision							Drawn	Check	Design	Approved
A	23 A	pr.,20)20								
В	B 11 Jul.,2022					N. Ito	S. Kariya	T. Kasahara	D. Fukushima		
			Se	nd to				Da	ate	D	wg
									r.,2016 der	X903703D:	50052-F24B

1. SCOPE

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

- SC-PWS5JCBL□M-■-L
- * The Products covered in this specification don't include the toxic substances in RoHS (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB).
- * UL's Wiring Harnesses Traceability program provides traceability for this cable.

2. CABLE TYPE



*1 This cable cannot be used alone. Please refer to the specifications below.

-	TIME CHET CHIMIST CO CH	30 00 00101101 1 10000 1 0101 to tale 1	SOUTH CONTROLLS COLO !!!			
		Specification type name	Drawing number	Bending life		
	Comyo amplifian aida	SC-PWS5CBL□M-LL	X903703D50052-F23	Standard (For fixed part)		
Servo amp	Servo amplifier side	SC-PWS5CBL□M-LH	X903703D50052-F43	Long bending life		

Refer to clause 6 for confirming the combination and cable length.

3. APPLICABLE STANDARDS

Wire part: UL standard (UL13 PLCC CL3)

UL Style No.	Rated		
2517	105°C	300V	

4. APPLICABLE SERVO MOTOR

HG-KR, HG-MR series motor HF-KN, HF-KP, HF-MP series motor

5. LENGTH OF CABLE

1 to 5m Specified by 1m unit

XII is a cable length that can be manufactured.

6. CABLE LENGTH FOR RELAY CONNECTION

Motor type neme		Total cable		
Motor type name	Amplifier side	Motor side		length
HG-KR/MR				
053,13,23,43	SC-PWS5CBL□M-LL	SC-PWS5JCBL□M- ■ -L		50m or less
HF-KN/KP/MP	SC-PWS5CBL□M-LH	SC-F WS5JCBL IVIL		Join of less
053,13,23,43				
HG-KR73	SC-PWS5CBL□M-LL	SC-PWS5JCBL□M- ■ -L	5m or less	30m or less
HF-KP73	SC-PWS5CBL□M-LH	SC-F WSJICDL□IVI-■-L		25m or less
HG-MR73	SC-PWS5CBL□M-LL	SC-PWS5JCBL□M- ■ -L		25m or less
HF-MP73	SC-PWS5CBL□M-LH	SC-L MSCICDT□M-■-T		23111 Of less

7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-	PWS5JCBL□M-■-L ××××××	
*	\square is a figure from 1 to 5.	
*	is cable lead out direction from A1, A2.	

8. STRUCTURE AND CHARACTERISTICS

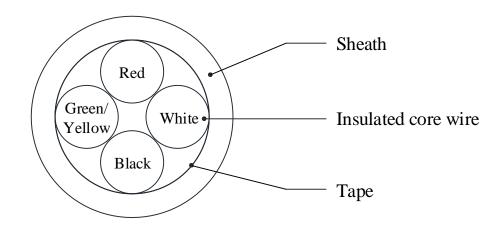
	Item		Unit	Specification	
Structure			_	AWG18×4C	
Cambastan	Conductor s	size	_	AWG18	
Conductor	Outer diam	eter	mm	Approx. 1.3	
Tu seeled's a	Material		_	ETFE	
Insulation	Outer diam	eter	mm	Approx. 1.8	
Twisted pair	Number of core wire	insulated	_	4C	
Classific	Material		_	Flame resisting PVC	
Sheath	color		_	Black	
Overall diameter			mm	Approx. 6.2	
Cable weight			kg/km	65	
Electrical	Insulation re	esistance	$M\Omega \cdot km$	Over 100	
characteristics	Withstand v	oltage	V/for 1min	AC1500*2	
Operating tempera	ure range		$_{\mathbb{C}}$	-10∼+60 (without condensation)	
Minimum Bend Radius			mm	6 times the overall diameter	
Flame Retardant			_	UL1581 VW-1	
	Servo amplifier side	Туре	Hirose Electric Co., Ltd. RM15WTPZ-4P (71) or RM15WTPZ-4P (76)*3 (Straight plug) JR13WCCA-6 (72) (Cord clamp)		
Connector		IP rating	IP67*1		
	Servo	Type	Japan Aviation Electronics Industry, Limited KN4FT04SJ1-R (Angle plug)		
	motor side	IP rating	IP65*1		

^{*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.

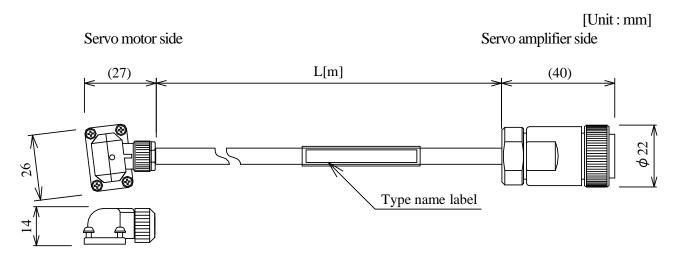
^{*2} In addition, the cable material alone is tested for a withstand voltage of 2000V / 5 minutes.

^{*3} From May 2022 production, we will switch from "RM15WTPZ-4P (71)" to "RM15WTPZ-4P (76)". Switching does not affect function and performance.

9. STRUCTURAL DRAWING



10. OUTLINE DRAWING



11. SYSTEM CONFIGURATION DIAGRAM

