Specification for General purpose AC Servo Long Bending Life Power supply cable

Type SC-PWC5CBL□M-■-○H

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

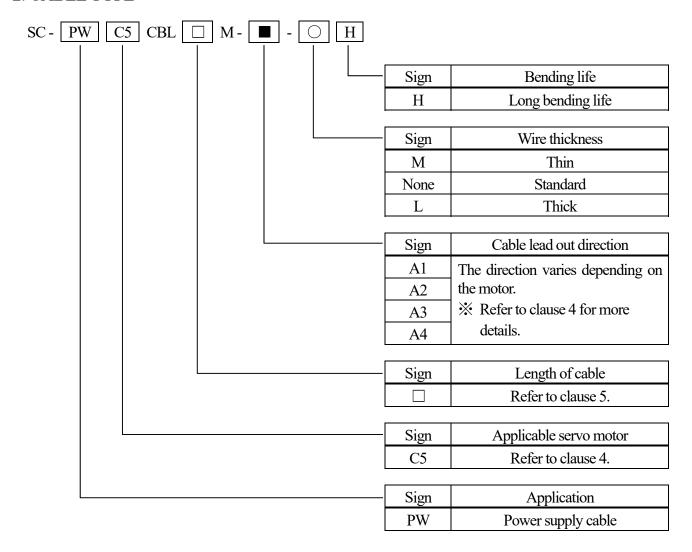
Revision			Drawn	Check	Design	Approved	
31 Mar.,2017			. // 11	0			
8 Jun.,2018			n Ishii	S. Harriya	m Awamura	D Julushim	
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1. SCOPE

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

- SC-PWC5CBL□M-■-MH
- SC-PWC5CBL□M-■-H
- SC-PWC5CBL□M-■-LH
- ** The Products covered in this specification don't include the toxic substances in RoHS (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB).
- X UL's Wiring Harnesses Traceability program provides traceability for this cable.

2. CABLE TYPE



3. APPLICABLE STANDARDS

UL758 AWM STYLE 2586 (wire part)

4. APPLICABLE SERVO MOTOR

The end of type name	Applicable servo motor	Cable lead out direction (View from cable insertion direction)	
МН	HG-SR121, 201, 202, 2024, 3524 motor HF-SP121, 201, 202, 2024, 3524 motor	A4	
Н	HG-SR301, 352, 5024 motor HF-SP301, 352, 5024 motor	A2	
LH	HG-SR502 motor HF-SP502 motor	A3	
Н	HG-JR353 motor HF-JP353 motor	A2	
LH	HG-JR503 motor HF-JP503 motor	A3	

(Note) Depending on the situation such as installation environment or combination of cables and connectors, there is a chance not to complete installation. (Even though it's mentioned above) Please make sure the cable lead out direction before your purchase.

5. LENGTH OF CABLE

1 to 30m Specified by 1m unit

6. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWC5CBL \square M- \blacksquare - \bigcirc H $\times \times \times \times \times \times \times$

- % \square is a figure from 1 to 30.
- is cable lead out direction from A1, A2, A3, A4.

 is cable lead out direction from A1, A2, A3, A4.
- % O is wire thickness from M, none, L.

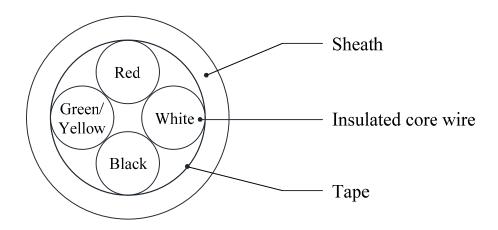
7. STRUCTURE AND CHARACTERISTICS

Item		T I '4	Specification			
		Unit	MH	Н	LH	
Structure		_	AWG15×4C	AWG12×4C	AWG10×4C	
Con too to	Conductor size		_	AWG15	AWG12	AWG10
Conductor	Outer diameter		mm	Approx. 2.0	Approx.2.77	Approx.2.99
Insulation	Material ulation		_	ETFE		Heat-resistance PVC
	Outer diameter		mm	Approx. 2.6	Approx. 3.57	Approx. 4.69
Stranding	Number of insulation core wire			4C		
Sheath	Material			Flame Retardant PVC		
Color		1	Black			
Overall diameter	Overall diameter		mm	Approx. 8.6	Approx. 10.9	Approx. 14
Electrical	Insulation resistance		$M\Omega \cdot km$	Over 100		
characteristics	Withstand voltage		V for 1minute	AC2000		
Operating temperature range		$^{\circ}\! \mathbb{C}$	-10~+60 (without condensation)			
Minimum radius bend		mm	6 times the overall diameter			
Bending life		_	Over 1 million times*1 (Bend radius: Minimum bend radius of each cable)			
Servo amplifier side		_	I			
Connector	motor side CE3057-12A-2-D (Waterproof cable clamp) LH: DDK Ltd. CE05-8A22-22SD-D-BAS (Angle plug) CE3057-12A-1-D (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.)

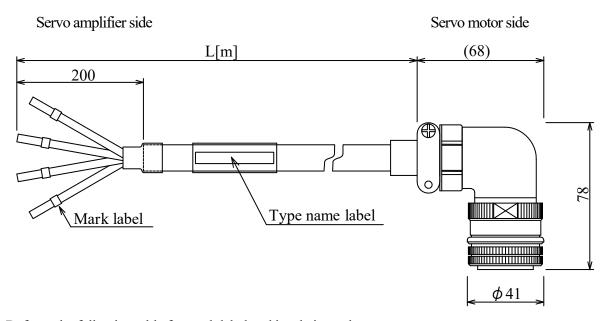
^{*2} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

8. STRUCTURAL DRAWING



9. 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
Е	Green / Yellow