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

Type SC-PWC4CBL□M-■-○H

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

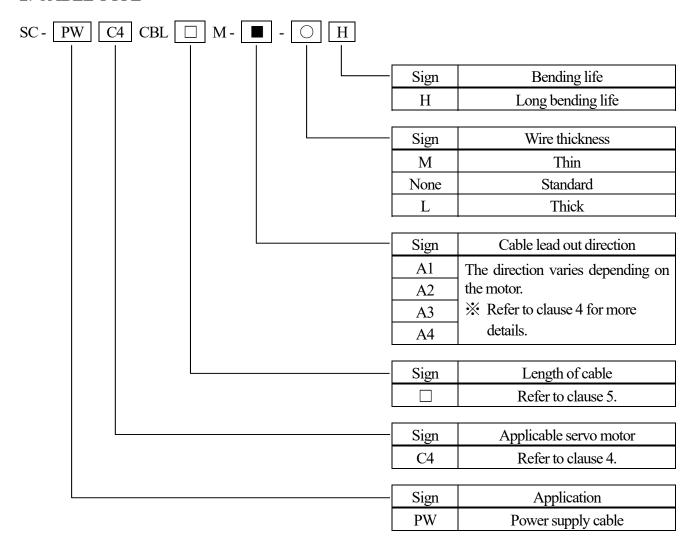
Approved Revision Check Design Drawn 27 Apr.,2016 A nashii Skariya M. awamura D. Judishim 31 Mar.,2017 В 7 Jun.,2018 C Dwg Send to Date 2 September, 2015 Order X903703D50052-F03C

1. SCOPE

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

- SC-PWC4CBL□M-■-MH
- · SC-PWC4CBL□M-■-H
- SC-PWC4CBL□M-■-LH
- X 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-SR51, 52, 81, 102, 524, 1024 motor HF-SP51, 52, 81, 102, 524, 1024 motor	A4 A2 A1		
Н	HG-SR152, 1524 motor HF-SP152, 1524 motor	A3		
МН	HG-JR53, 73, 103, 534, 734, 1034 motor HF-JP53, 73, 103, 534, 734, 1034 motor	A2		
Н	HG-JR153, 203, 1534, 2034, 3534 motor HF-JP153, 203, 1534, 2034, 3534 motor	A3 ← → A4		
LH	HG-JR5034 motor HF-JP5034 motor	A1 ↓		

(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-PWC4CBL \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 wire thickness from M, none, L.

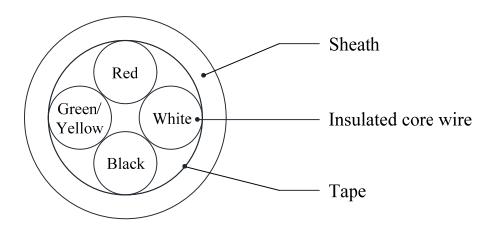
7. STRUCTURE AND CHARACTERISTICS

		TT '4	Specification			
Item			Unit	MH	Н	LH
Structure		_	AWG16×4C	AWG15×4C	AWG12×4C	
Conductor	Conductor size		_	AWG16	AWG15	AWG12
Conductor	Conductor Outer diame		mm	Approx. 1.75	Approx. 2.00	Approx.2.77
In mulation	Material		_	ETFE		
Insulation	Outer diame	eter	mm	Approx. 2.55	Approx. 2.60	Approx. 3.57
Stranding	Number of insulation core wire		_	4C		
Classella	Material		_	Flame Retardant PVC		
Sheath	Color		_	Black		
Overall diameter		mm	Approx. 8.3	Approx. 8.6	Approx. 10.9	
Electrical	Insulation resistance Withstand voltage		MΩ·km	Over 100		
characteristics			V for 1minute	AC2000		
Operating temperature range		$^{\circ}\!\mathrm{C}$	-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)			
Flame retardant		_	UL1581 VW-1			
Servo amplifier side		_				
Connector	Servo motor side	Туре	MH: DDK Ltd. CE05-8A18-10SD-D-BAS (Angle plug) CE3057-10A-3-D (Waterproof cable clamp) H: DDK Ltd. CE05-8A18-10SD-D-BAS (Angle plug) CE3057-10A-2-D (Waterproof cable clamp) LH: DDK Ltd. CE05-8A18-10SD-D-BAS (Angle plug) CE3057-10A-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.)

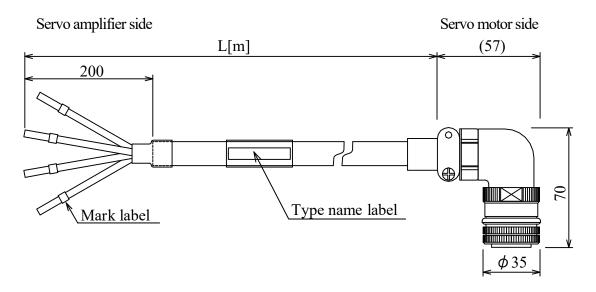
^{*2} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

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		