Specification for

General purpose AC Servo Long Bending Life Power supply cable

Type SC-PWC2CBL□M-■-○H

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

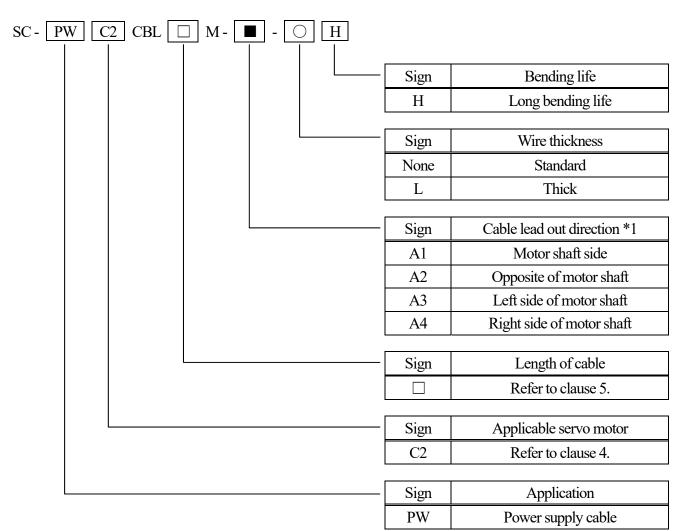
Revision Check Design Approved Drawn 31 Mar.,2017 A n. Ishii S. Zaiya 7 Jun.,2018 M. acuamura D. Julishin В Dwg Send to Date 27 Apr.,2016 Order X903703D50052-F32B

1. SCOPE

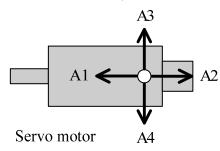
This specification covers the requirements for the General purpose AC Servo Long Bending Life Power supply cable.

- SC-PWC2CBL□M-■-H
- SC-PWC2CBL□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



*1: Cable lead out direction (View from cable insertion direction)



A1: Motor shaft side

A2: Opposite of motor shaft A3: Left side of motor shaft A4: Right side of motor shaft

(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.

3. APPLICABLE STANDARDS

UL758 AWM STYLE 2586 (wire part)

4. APPLICABLE SERVO MOTOR

The end of type name

① H
HG-UR202 motor
HC-LP202, HC-UP202 motor

② LH HG-RR353, 503, HG-UR352, 502 motor

HA-LP502, HC-LP302, HC-RP353, 503, HC-UP352, 502 motor

5. LENGTH OF CABLE

1 to 30m Specified by 1m unit

6. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWC2CBL \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.
- ※ is wire thickness from none, L.

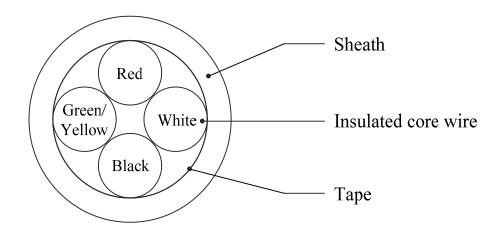
7. STRUCTURE AND CHARACTERISTICS

Item			Unit	Specification	
				Н	LH
Structure			_	AWG12×4C	AWG10×4C
Conductor	Conductor size		_	AWG12	AWG10
	Outer diameter		mm	Approx. 2.77	Approx. 2.99
Insulation	Material		_	ETFE	PVC
	Outer diameter		mm	Approx. 3.57	Approx. 4.69
Twisted pair	Number of insulated core wire		_	4C	
Sheath	Material		_	Flame resisting PVC	
	Color		_	Black	
Overall diameter			mm	Approx. 10.9	Approx. 14
Electrical characteristics	Insulation resistance		MΩ · km	Over 100	
	Withstand voltage		V for1minute	AC2000	
Operating temperature range			$^{\circ}\!\mathrm{C}$	-10~+60 (without condensation)	
Minimum bend radius			mm	6 times the overall diameter	
Bending life			ı	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	H: DDK Ltd. CE05-8A24-10SD-D-BAS (Angle Plug) CE3057-16A-8-D (Waterproof Cable Clamp) LH: DDK Ltd. CE05-8A24-10SD-D-BAS (Angle Plug) CE3057-16A-2-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.)

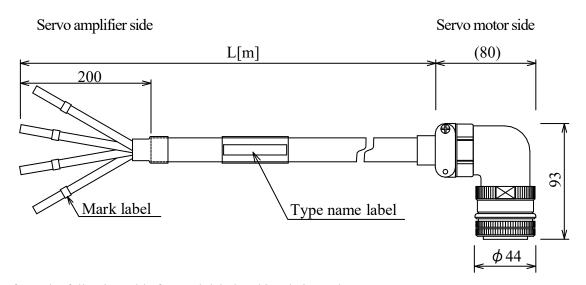
^{*2} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

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