Specification for General purpose AC Servo Power supply cable

Type SC-PWC3CBL \square M- \bigcirc L

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

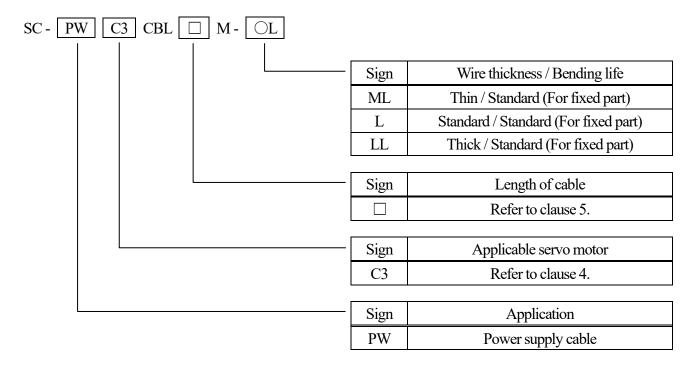
	Revision					Drawn	Check	Design	Approved	
Α	31 M	ar.,2017	D	15 Mar.,2022						
В	28 Sep.,2017				n Ita	S. Hariya	m. awamwa	D. Jebeshin		
C	19 Ju	ıly,2018					7 - 400	N. Ju		
	Send to				Date		Dwg			
							27 Apr	r.,2016		
							Or	der	X903703D:	50052-F10D
-										

1. SCOPE

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

- SC-PWC3CBL□M-ML
- SC-PWC3CBL□M-L
- SC-PWC3CBL□M-LL
- * 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



3. APPLICABLE STANDARDS

Wire part: UL standard (UL 758: AWM)

UL Style No.	Rated			
2586	105°C	600V		

4	APPI	ICAR	LESE	RVO	MOTO	R

Refer to MR-J4 APPLICABLE SERVO MOTOR TABLE "R9037020-01002-105".

5. LENGTH OF CABLE

1 to 30m Specified by 1m unit

6. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWC3CBL□M-○L ×××××××
is a figure from 1 to 30.
is wire thickness from M, none, L.
×××××××× are the serial number for seven or eight digits.

7. STRUCTURE AND CHARACTERISTICS

	T,		TT '4	Specification			
Item			Unit	ML	L	LL	
Structure			_	AWG10×4C	AWG8×4C	AWG6×4C	
G 1 4	Conductor s	size	_	AWG10	AWG8	AWG6	
Conductor	Outer diame	eter	mm	Approx. 3.1	Approx.4.5	Approx.5.7	
I.,1.4	Material		_	PVC			
Insulation	Outer diame	eter	mm	Approx. 4.8	Approx. 7.3	Approx. 9.1	
Stranding	Number of insulation core wire		_	4C			
C1 .1	Material		_	Flame Retardant PVC			
Sheath	Color		_	Black			
Overall diameter			mm	Approx. 13.7	Approx. 21.3	Approx. 25.6	
Cable weight			kg/km	330	670	1020	
Electrical	· ·		MΩ·km	Over 10			
characteristics	characteristics Withstand voltage		V for 1minute	AC2000*2			
Operating tempe	erature range		$^{\circ}\!\mathbb{C}$	$-10\sim+60$ (without condensation)			
Minimum Radiu	ıs Bend		mm	6 times the overall diameter			
Flame Retardant	•		_	UL1581 VW-1			
Servo amplifier side		_					
Connector	motor side L: DDK Ltd. CE05-6A32-17SD-D-BSS(R1) (Straight CE3057-20A-1-D(R1) (Waterproof cabl LL: DDK Ltd. CE05-6A32-17SD-D-BSS(R1) (Straight CE3057-20A-2-D(R1) (Waterproof cabl			plug) clamp) plug)			
		IP rating	IP67*1				

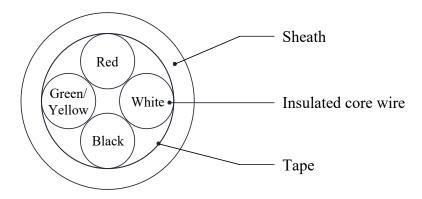
^{*1} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

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

^{*3} The plug is used in common for Nippon Flex product and Sankei Seisakusho product clamps.

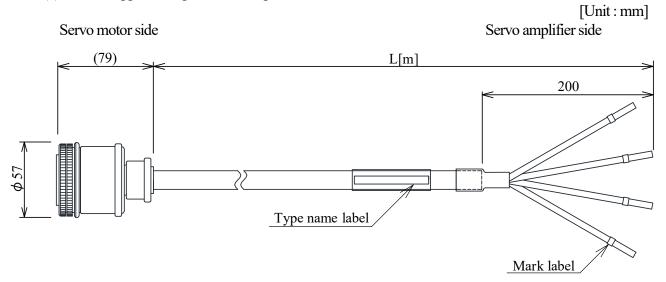
^{*4} Due to the discontinuation of production of Nippon Flex clamps, we will switch to Sankei Seisakusho products after the inventory of Nippon Flex products is exhausted.

8. STRUCTURAL DRAWING

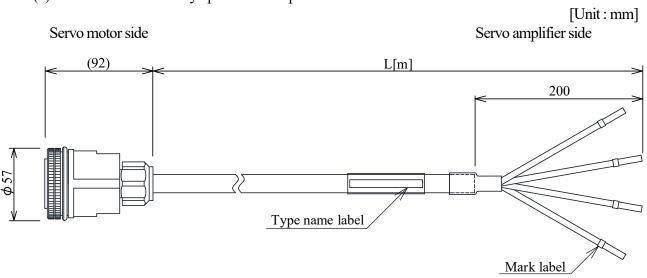


9. OUTLINE DRAWING

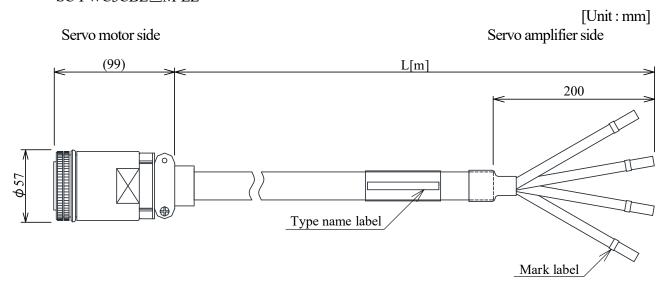
- (1) SC-PWC3CBL□M-ML
 - (1)-1 Uses Nippon Flex products clamp



(1)-2 Uses Sankei Seisakusyo products clamp



(2) SC-PWC3CBL□M-L SC-PWC3CBL□M-LL



Refer to the following table for mark label and insulation color.

Mark label	Insulation color
U	Red
V	White
W	Black
E	Green / Yellow