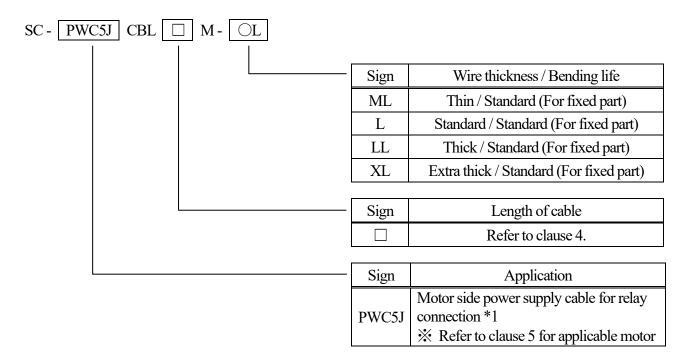
	feneral purp	or ose AC			
	MITSUBISHI I	ELECTR	IC		
	No	ote			
Rev	ision	Drawn	Check	Design	Approved
21 Apr.,2020 16 Mar.,2022		n. Ito	S. Fariya	In Awamura	D. Tedeshine
Send to		Date		Dwg	
		31 Mar.,2017 Order		X903703D50052-F54B	
	Rev. 21 Apr.,2020 16 Mar.,2022	General purp Power su Type SC-PWC: MITSUBISHI SYSTEM & SE No Revision 21 Apr.,2020 16 Mar.,2022	Power supply cal Type SC-PWC5JCBLI MITSUBISHI ELECTR SYSTEM & SERVICE (Note Revision Drawn 21 Apr.,2020	for General purpose AC Servo Power supply cable Type SC-PWC5JCBL M- MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD Note Revision Drawn Check 21 Apr.,2020 16 Mar.,2022 N. Jo Lhuyen Send to Date 31 Mar.,2017	Fevision Drawn Check Design Revision Drawn Check Design 21 Apr.,2020 16 Mar.,2022 Send to Date Drawn Send to Date Drawn 11 Mar.,2017

1. SCOPE

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

- SC-PWC5JCBL□M-ML
- SC-PWC5JCBL□M-L
- SC-PWC5JCBL□M-LL
- SC-PWC5JCBL□M-XL
- * 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.

Use the following cables in combination as a relay cable on the amplifier side.

Cable type name	Specifications management number
SC-PWC5CBL□M-○L	X903703D50052-H23
SC-PWC5CBL□M-○H	X903703D50052-H31
SC-PWC5CBL□M(- ■)-○L-S1	X903703D50052-D39
SC-PWC5CBL□M(- ■)-○H-S1	X903703D50052-D40

3. APPLICABLE STANDARDS

Wire part: UL standard (UL 758: AWM)

Wire thickness	UL Style No.	Ra	ıted	
ML(Thin)		Tu		
L (Standard)	2501	10.500	C0077	
LL (Thick)	2596	105°C	600V	
XL(Extra thick)	2586			

4. LENGTH OF CABLE

1 to 50m Specified by 1m unit

* Cable length varies depending on the servo motor to be combined and the cable on the amplifier side.

5. APPLICABLE SERVO MOTOR

○ : Selectable、 X : Not selectable

Applicable servo motor		Wire thickness				
MR-J4	MR-J3	ML	L	LL	XL	
compatible	compatible					
HG-SR121	HF-SP121					
HG-SR201	HF-SP201					
HG-SR202	HF-SP202	\circ	\circ	\circ	\circ	
HG-SR2024	HF-SP2024					
HG-SR3524	HF-SP3524					
HG-SR301	HF-SP301					
HG-SR352	HF-SP352	×		\cap	\cap	
HG-SR5024	HF-SP5024					
HG-JR353	HF-JP353					
HG-SR502	HF-SP502	×	×			
HG-JR503	HF-JP503	^	^			

(Caution!) The applicability of the applicable motor and wire thickness (\bigcirc · \times) in the above table applies only to the cables in this specification. It does not apply to the SC-PWC5CBL series of direct connection / amplifier side relay cables.

6. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWC5JCBL \square M- \bigcirc L $\times \times \times \times \times \times \times \times$

% \square is a figure from 1 to 50.

 $X \odot$ is wire thickness from M, none, L, X.

7. STRUCTURE AND CHARACTERISTICS

Item		TT '/	Specification					
		Unit	ML	L	LL	XL		
Structure		_	AWG14×4C	AWG12×4C	AWG10×4C	AWG8×4C		
Conductor Size Outer diameter		_	AWG14	AWG12	AWG10	AWG8		
		mm	Approx. 2.0	Approx. 2.5	Approx. 3.1	Approx. 4.5		
Material		_	PVC					
msulation	Insulation Outer diameter		mm	Approx. 3.7 Approx. 4.2 Approx. 4.8 Approx.				
Stranding Number of insulation core wire		_	4C					
Sheath	Material		_	Flame Retardant PVC				
Silcaui	Color		_	Black				
Overall dian	neter		mm	Approx. 12.2	Approx. 13.6	Approx. 13.7	Approx. 21.3	
Cable weight			kg/km	210	280	330	670	
Electrical	Insulati	on esistance	$M\Omega \cdot km$	Over 10				
characteristi	ce Withete	and voltage	V for	AC2000*2				
Characteristi	CS WILLIST	ind voltage	1minute					
Operating to	mperature i	ange	${\mathbb C}$	-10~+60 (without condensation)				
Minimum F	Radius Bend		mm	6 times the overall diameter				
Flame Retai	rdant		_	UL1581 VW-1				
	Servo amplifier side	amplifier Type	ML: DDK Ltd. D/MS3101A22-22P(D263) (Cable receptacle) CE3057-12A-2-D(R1) (Waterproof cable clamp) CE02-22BS-S-D(R1) (Waterproof back shell) L,LL: DDK Ltd. D/MS3101A22-22P(D263) (Cable receptacle) CE3057-12A-1-D(R1) (Waterproof cable clamp) CE02-22BS-S-D(R1) (Waterproof back shell) XL: DDK Ltd. D/MS3101A22-22P(D263) (Cable receptacle)*3 Nippon Flex Co., Ltd.*4 ACS-24RL-MS22F (MS type straight connector)					
Connector			or Sankei Seisakusho Co., Ltd. *4 C2KD2422 (KEIGLAND Type C2)					
		IP rating		IP67*1				
	Servo motor side	Туре	ML: DDK Ltd. CE05-6A22-22SD-D-BSS(R1) (Straight plug) CE3057-12A-2-D(R1) (Waterproof cable clamp) L,LL: DDK Ltd. CE05-6A22-22SD-D-BSS(R1) (Straight plug) CE3057-12A-1-D(R1) (Waterproof cable clamp) XL: DDK Ltd. CE05-6A22-22SD-D(R1) (Plug)*3 Nippon Flex Co., Ltd. *4 ACS-24RL-MS22F (MS type straight connector) or Sankei Seisakusho Co., Ltd. *4 C2KD2422 (KEIGLAND Type C2)			able clamp) ght plug) able clamp)		
*1	Cha ID	IP rating	IP67*1 Is for the connector's protection against ingress of dust and water when					

The IP rating indicated is for the connector's protection against ingress of dust and water when *1 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.

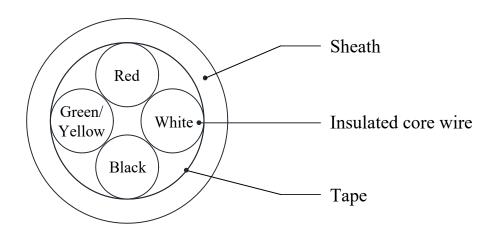
^{*2} In addition, the cable material alone is tested for a withstand voltage of 2000V / 5 minutes.

The plug and receptacle is used in common for Nippon Flex product and Sankei Seisakusho product clamps.

Due to the discontinuation of production of Nippon Flex clamps, we will switch to Sankei

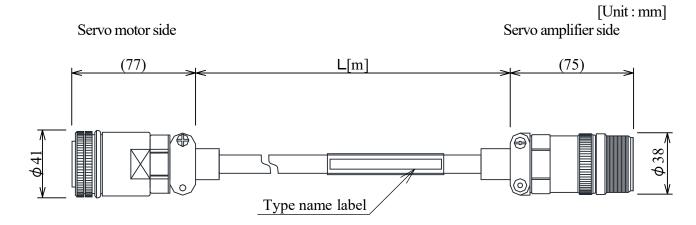
Seisakusho products after the inventory of Nippon Flex products is exhausted.

8. STRUCTURAL DRAWING



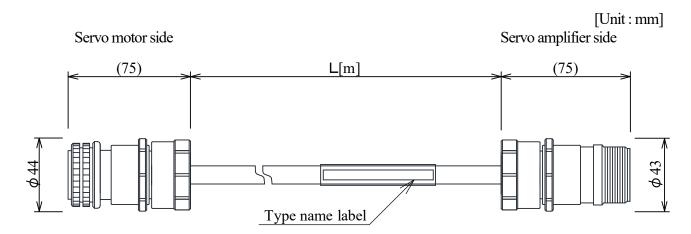
9. OUTLINE DRAWING

(1) SC-PWC5JCBL□M-ML SC-PWC5JCBL□M-L SC-PWC5JCBL□M-LL



(2) SC-PWC5JCBL□M-XL

(2)-1 Uses Nippon Flex products clamp



(2)-2 Uses Sankei Seisakusyo products clamp

