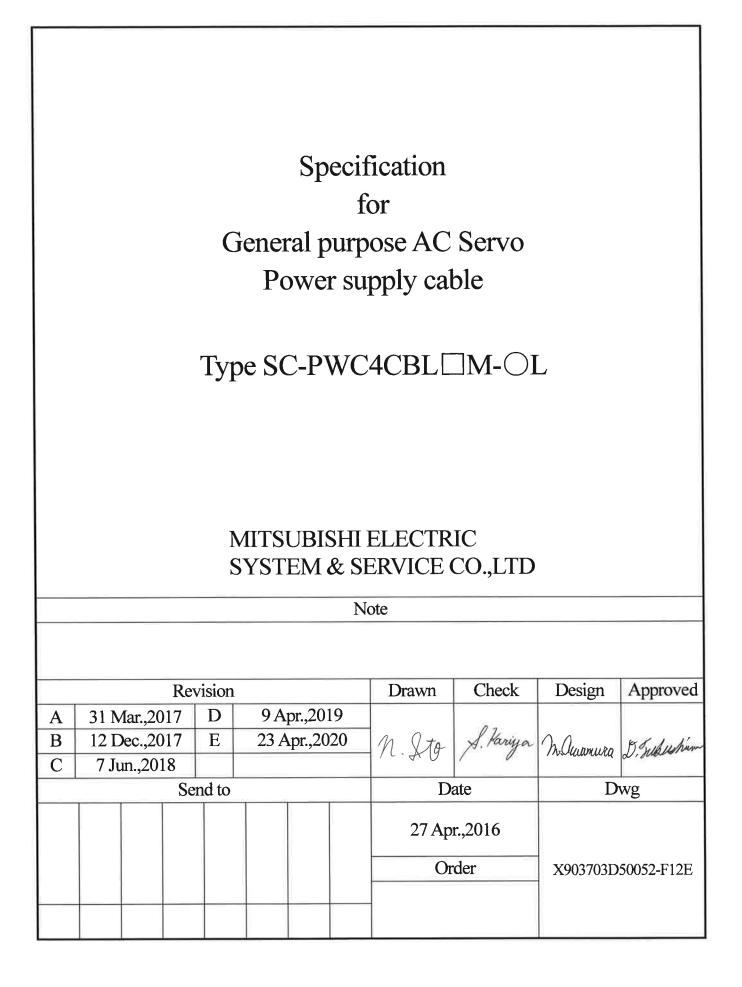
Spec. No.X903703D50052-F12E Page 1/5



1. SCOPE

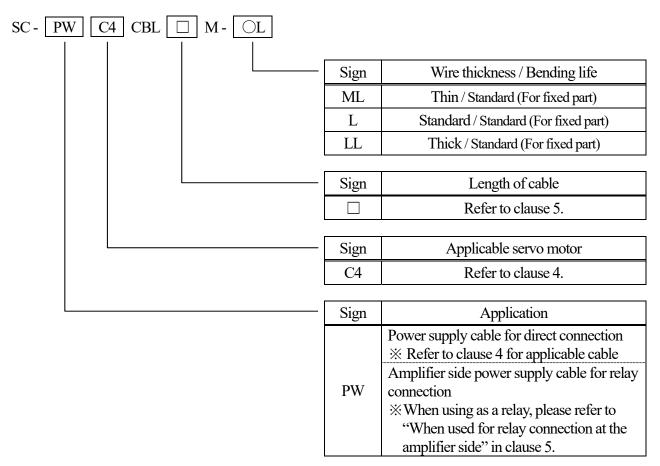
This specification covers the requirements for the General purpose AC Servo Power supply cable.

- SC-PWC4CBL□M-ML
- SC-PWC4CBL M-L
- SC-PWC4CBL□M-LL

<u>X</u> 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

Wire part : UL standard (UL 758 : AWM)

Wire thickness	UL Style No.	Ra	ted
ML (Thin)	2586	105°C	600V
L (Standard)	2501	105°C	600V
LL (Thick)	2301		

4. APPLICABLE SERVO MOTOR

Target series	Applicable servo motor type name	
MR-J4 series	Refer to MR-J4 APPLICABLE SERVO MOTOR TABLE "R9037020-010022-105".	
MR-J5 series	In the choice page of catalogue or our homepage, please confirm it.	

5. LENGTH OF CABLE

1 to 30m Specified by 1m unit

When used for relay connection at the amplifier side

When using this cable for relaying at the amplifier side, for the items (1) to (3) below refer to the specification sheet on the motor side relay cable (below table).

- (1) Combination
- (2) Applicable motor
- (3) Cable length

Target series	Bending life	Cable type name	The number of specification sheet	
MR-J3, MR-J4 series	Standard (For fixed	SC-PWS1JCBL□M-■-L	X903703D50052-F20	
		SC-PWC4JCBL M-L	X903703D50052-F25	
	part)	SC-PWC4JCBL□M-■-L	X903703D50052-F26	
	Long bending life	SC-PWS1JCBL□M-■-H	X903703D50052-F40	
		SC-PWC4JCBL M-H	X903703D50052-F45	
		SC-PWC4JCBL□M-■-H	X903703D50052-F46	
MR-J5 series	Please refer to the CABLE LENGTH SELECTION TABLE "R9535021-018028-			
wik-j5 series	010" for more information.			

6. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWC4CBL \square M- \bigcirc L $\times \times \times \times \times \times \times$

- \approx \square is a figure from 1 to 30.
- $\stackrel{*}{\times}$ \bigcirc is wire thickness from M, none , L.

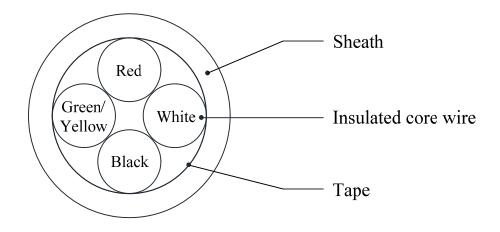
7. STRUCTURE AND CHARACTERISTICS

Item		T T'4	Specification			
		Unit	ML	L	LL	
Structure		_	AWG16×4C	AWG14×4C	AWG12×4C	
0 1 4	Conductor size		_	AWG16	AWG14	AWG12
Conductor Outer diam		eter	mm	Approx. 1.53	Approx.1.92	Approx.2.48
Mate	Material		—	PVC		
Insulation	Outer diameter		mm	Approx. 3.23	Approx. 3.62	Approx. 4.18
Stranding	Stranding Number of insulation core wire		_	4C		
Sheeth	Sheath Material Color		_	Flame Retardant PVC		
Sneath			—	Black		
Overall diameter		mm	Approx. 9.9	Approx. 12.2	Approx. 13.6	
Electrical	ElectricalInsulation resistancecharacteristicsWithstand voltage		$M\Omega \cdot km$	Over 10		
characteristics			V for 1 minute	AC2000*2		
Operating tempe	Operating temperature range		°C	-10 \sim +60 (without condensation)		
Minimum radius	Minimum radius bend		mm	6 times the overall diameter		meter
Flame retardant			_	UL1581 VW-1		
	Servo amplifier side		—			
	Servo Type motor side		ML: DDK Ltd. CE05-6A18-10SD-D-BSS (Straight plug) CE3057-10A-2-D (Waterproof cable clamp) L, LL: DDK Ltd. CE05-6A18-10SD-D-BSS (Straight plug) CE3057-10A-1-D (Waterproof cable clamp)			
		IP rating	IP67 ^{*1}			

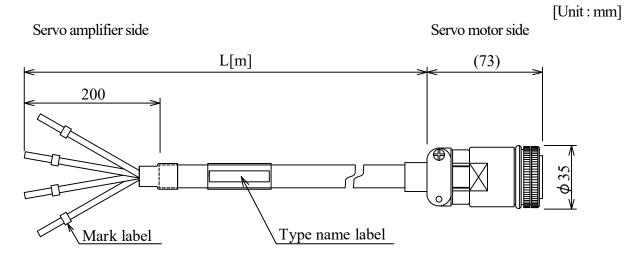
*1 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

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

8. STRUCTURAL DRAWING



9. OUTLINE DRAWING



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

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