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

Type SC-PWC4CBL□M-○H

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

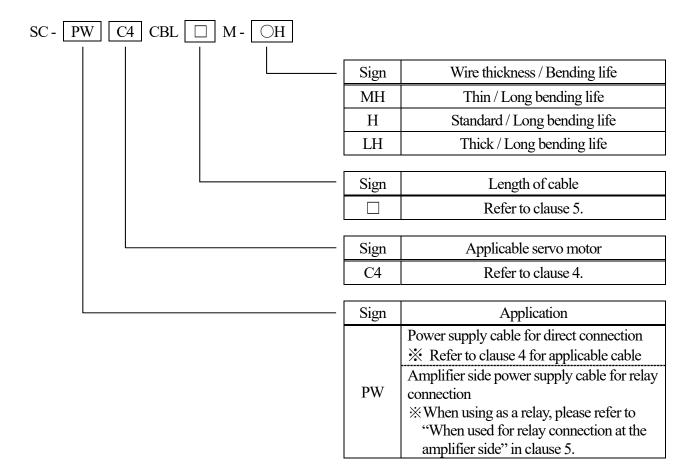
	Revision				Check	Design	Approved
A	27 Apr.,2016	D	7 Jun.,2018				
В	31 Mar., 2017	Е	9 Apr.,2019	1. minonaga	L. Jarija	Imineroga	D. Tubushin
C	12 Dec.,2017			74,	1000	73. 0	0.74600
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				2 Septem	nber,2015		
				Order		X903703D50052-F02E	

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
- ** 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)

UL Style No.	Rated		
2586	105°C	600V	

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		
	Cton don't	SC-PWS1JCBL□M-■-L	X903703D50052-F20		
	Standard (For fixed part)	SC-PWC4JCBL□M-L	X903703D50052-F25		
MR-J3, MR-J4	(Por fixed part)	SC-PWC4JCBL□M-■-L	X903703D50052-F26		
series	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 "R9535021-018028-010" for				
IVIK-J3 Series	more information.				

6. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWC4CBL□M-○H ××××××
※ □ is a figure from 1 to 30.
※ ○ is wire thickness from M, none, L.
※ ×××××× are the serial number for seven digits.

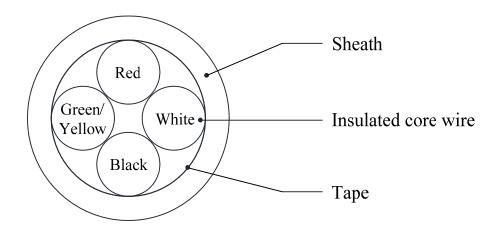
7. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification		
	Item			Н	LH
		_	AWG16×4C	AWG15×4C	AWG12×4C
Conductor s	size	_	AWG16	AWG15	AWG12
Outer diame	eter	mm	Approx. 1.75	Approx. 2.00	Approx.2.77
Material		_	ETFE		
Outer diame	eter	mm	Approx. 2.55	Approx. 2.60	Approx. 3.57
Number of insulation core wire		_	4C		
Material		_	Flame Retardant PVC		
Color		_	Black		
r		mm	Approx. 8.3	Approx. 8.6	Approx. 10.9
Insulation resistance		MΩ·km	Over 100		
Withstand voltage		V for 1minute	AC2000		
rature range		$^{\circ}\! \mathbb{C}$	-10~+60 (without condensation)		
Minimum radius bend			6 times the overall diameter		
Bending life			Over 1 million times*1 (Bend radius : Minimum bend radius of each cable)		
		_	UL1581 VW-1		
Servo amplifier side					
Servo motor side	Type	MH: DDK Ltd. CE05-6A18-10SD-D-BSS (Straight plug) CE3057-10A-3-D (Waterproof cable clamp) H: DDK Ltd. CE05-6A18-10SD-D-BSS (Straight plug) CE3057-10A-2-D (Waterproof cable clamp) LH: DDK Ltd. CE05-6A18-10SD-D-BSS (Straight plug) CE3057-10A-1-D (Waterproof cable clamp))
1	Outer diamed Material Outer diamed Number of core wire Material Color Insulation ret Withstand verature range bend Servo ampli	Outer diameter Number of insulation core wire Material Color Insulation resistance Withstand voltage rature range bend Servo amplifier side Servo Type	Outer diameter mm Material — Number of insulation core wire — Material — Color — mm MΩ • km Withstand voltage V for 1 minute withstand voltage C bend mm Servo amplifier side — Servo amplifier side — MH: DDK Ltd. CE05-6A18 CE3057-10. H: DDK Ltd. CE3057-10. LH: DDK Ltd. CE05-6A18 CE3057-10. LH: DDK Ltd. CE05-6A18 CE3057-10. LH: DDK Ltd. CE05-6A18 CE3057-10.	Conductor size — AWG16 Outer diameter mm Approx. 1.75 Material — Approx. 2.55 Number of insulation core wire Material — Flaterial — Fla	Conductor size — AWG16 AWG15 Outer diameter mm Approx. 1.75 Approx. 2.00 Material — ETFE Outer diameter mm Approx. 2.55 Approx. 2.60 Number of insulation core wire — 4C Material — Flame Retardant PV Color — Black mm Approx. 8.3 Approx. 8.6 Insulation resistance MΩ · km Over 100 Withstand voltage V for I minute AC2000 Pature range C -10~+60 (without conders the overall diamentary of the conders the coverall diamentary of the conders the coverall diamentary of

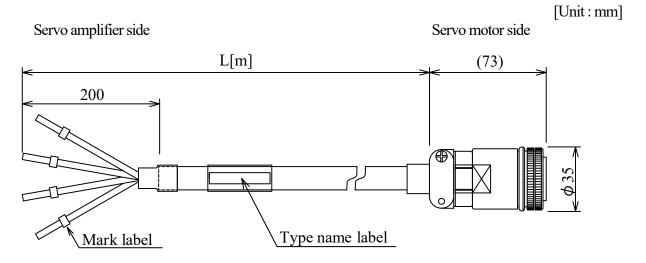
^{*1} It is a test outcome, and not a guaranteed value. (The performance is different according to customer's environment.)

^{*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



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

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