

1. SCOPE

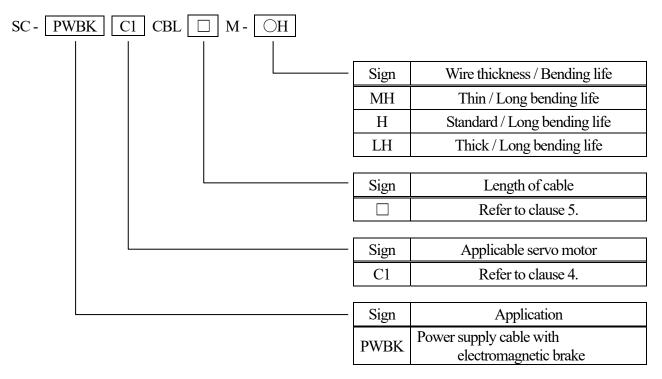
This specification covers the requirements for the General purpose AC Servo Long Bending Life Power supply cable with electromagnetic brake.

- SC-PWBKC1CBL□M-MH
- SC-PWBKC1CBL□M-H
- SC-PWBKC1CBL M-LH

<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)

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 as a relay for the MR-J5 series, please refer to the CABLE LENGTH SELECTION TABLE "R9535021-018028-010".

6. EXAMPLE OF PRINTING CABLE TYPE NAME

 $\textbf{SC-PWBKC1CBL} \square \textbf{M-} \bigcirc \textbf{H} \quad \times \times \times \times \times \times \times$

- \therefore \square is a figure from 1 to 30.
- $\stackrel{\scriptstyle \bullet}{\times}$ \bigcirc is wire thickness from M, none , L.
- \times \times \times \times \times \times \times \times are the serial number for seven digits.

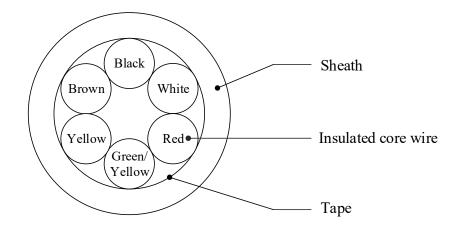
Item		T T	Specification			
		Unit	MH	Н	LH	
Structure			_	AWG16×6C	AWG15×6C	AWG12×6C
Conductor	Conductor size		_	AWG16	AWG15	AWG12
	Outer diameter		mm	Approx. 1.75	Approx. 2.0	Approx. 2.6
Insulation	Material			ETFE		
msulation	Outer diameter		mm	Approx. 2.55	Approx. 2.8	Approx. 3.4
Stranding	Number of insulation core wire		_	6C		
Sheath	Sheath Material Color		—	Flame Retardant PVC		
Sheath			_	Black		
Overall diameter		mm	Approx. 10	Approx. 10.7	Approx. 12.7	
Electrical	Insulation resistance		$M\Omega \cdot km$	Over 100		
characteristics Withstand voltage		V for 1 minute	AC2000			
Operating temperature range		°C	-10 \sim +60 (without condensation)			
Minimum radius bend		mm	6 times the overall diameter			
Bending life			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	MH/H:DDK Ltd. CE05-6A22-23SD-D-BSS (Straight plug) CE3057-12A-2-D (Waterproof cable clamp) LH:DDK Ltd. CE05-6A22-23SD-D-BSS (Straight plug) CE3057-12A-1-D (Waterproof cable clamp)			
		IP rating	IP67*2			

7. STRUCTURE AND CHARACTERISTICS

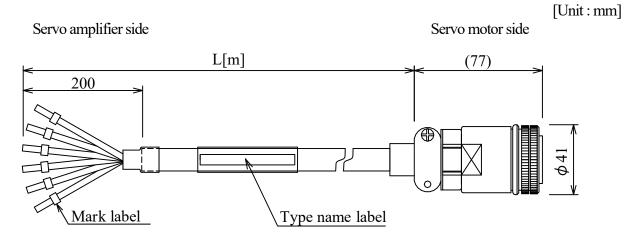
*1 It is a test outcome, and not a guaranteed value. (The performance is different according to customer's environment.)

*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	
E	Green / Yellow	
B1	Yellow	
B2	Brown	