

1. SCOPE

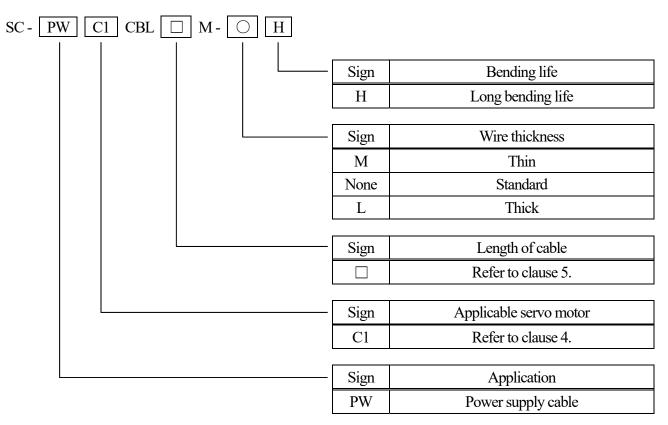
This specification covers the requirements for the General purpose AC Servo Long Bending Life Power supply cable.

- SC-PWC1CBL□M-MH
- SC-PWC1CBL M-H
- SC-PWC1CBL 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

UL758 AWM STYLE 2586 (wire part)

4. APPLICABLE SERVO MOTOR

The end of type name

 MH HG-UR72 motor HC-LP52, 102 motor HC-UP72 motor

2) H

HG-RR103, 153 motor HG-UR152 motor HC-LP152 motor HC-RP103, 153 motor HC-UP152 motor

③ LH

HG-RR203 motor HC-RP203 motor

5. LENGTH OF CABLE

1 to 30m Specified by 1m unit

6. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWC1CBL \Box M- \bigcirc H $\times \times \times \times \times \times \times$

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

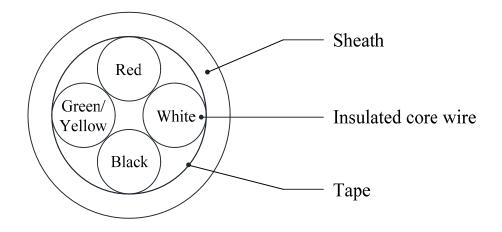
| Item | | | Unit | Specification | | |
|-----------------------------|--------------------------------|-----------|--|--|--------------|----------------|
| | | | | MH | Н | LH |
| Structure | | | _ | AWG16×4C | AWG15×4C | AWG12×4C |
| Conductor | Conductor size | | _ | AWG16 | AWG15 | AWG12 |
| | Outer diameter | | mm | Approx. 1.75 | Approx.2.00 | Approx.2.77 |
| Insulation | Material | | — | ETFE | | |
| | Outer diameter | | mm | Approx. 2.55 | Approx. 2.60 | Approx. 3.57 |
| Stranding | Number of insulation core wire | | — | 4C | | |
| Sheath | Material | | — | Flame Retardant PVC | | |
| | Color | | — | Black | | |
| Overall diameter | | | mm | Approx. 8.3 | Approx. 8.6 | Approx. 10.9 |
| 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-3-D (Waterproof cable clamp) LH : DDK Ltd. CE05-6A22-23SD-D-BSS (Straight plug) CE3057-12A-2-D (Waterproof cable clamp) | | | clamp) lug) |
| | | 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.)

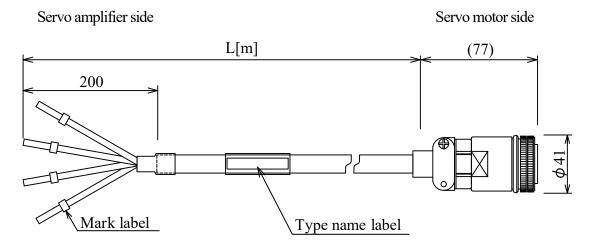
*2 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

8. STRUCTURAL DRAWING



9. OUTLINE DRAWING

[Unit:mm]



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

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