

Specification
for
General purpose AC Servo
Power supply cable

Type SC-PWC2CBL□M-■-○L

MITSUBISHI ELECTRIC
SYSTEM & SERVICE CO.,LTD

Note

| Revision | | | | Drawn | Check | Design | Approved |
|----------|--------------|--|--|-----------------|------------------|--------------------|-------------------|
| A | 31 Mar.,2017 | | | <i>N. Ishii</i> | <i>S. Koyama</i> | <i>M. Kuwamura</i> | <i>D. Subashi</i> |
| B | 4 Jun.,2018 | | | | | | |
| | | | | | | | |
| Send to | | | | Date | | Dwg | |
| | | | | 27 Apr.,2016 | | X903703D50052-F09B | |
| | | | | Order | | | |
| | | | | | | | |

1. SCOPE

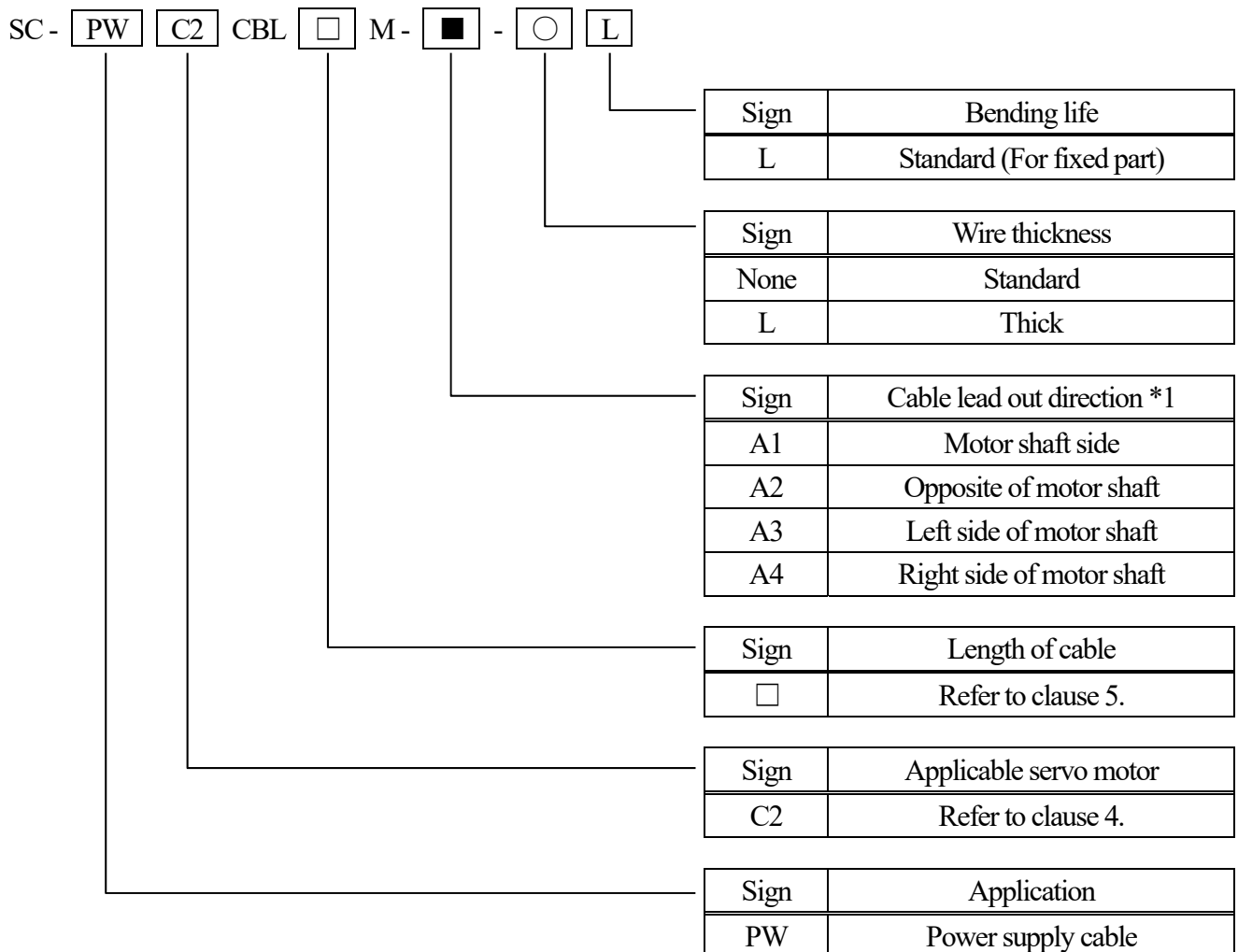
This specification covers the requirements for the General purpose AC Servo Power supply cable.

- SC-PWC2CBL□M-■-L
- SC-PWC2CBL□M-■-LL

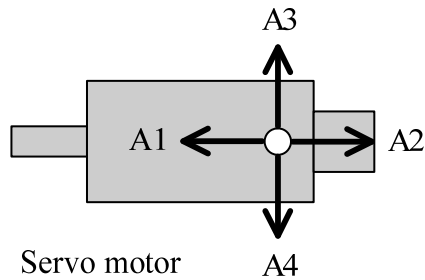
※ The Products covered in this specification don't include the toxic substances in RoHS (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB).

※ UL's Wiring Harnesses Traceability program provides traceability for this cable.

2. CABLE TYPE



*1 : Cable lead out direction (View from cable insertion direction)



A1 : Motor shaft side
 A2 : Opposite of motor shaft
 A3 : Left side of motor shaft
 A4 : Right side of motor shaft

(Note) Depending on the situation such as installation environment or combination of cables and connectors, there is a chance not to complete installation. (Even though it's mentioned above) Please make sure the cable lead out direction before your purchase.

3. APPLICABLE STANDARDS

The end of type name

- ① L : UL758 AWM STYLE 2501 (wire part)
- ② LL : UL758 AWM STYLE 2586 (wire part)

4. APPLICABLE SERVO MOTOR

The end of type name

- ① L
 HG-UR202 motor
 HC-LP202, HC-UP202 motor
- ② LL
 HG-RR353, 503, HG-UR352, 502 motor
 HA-LP502, HC-LP302, HC-RP353, 503, HC-UP352, 502 motor

5. LENGTH OF CABLE

1 to 30m Specified by 1m unit

6. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWC2CBL□M-■-○L ×××××××

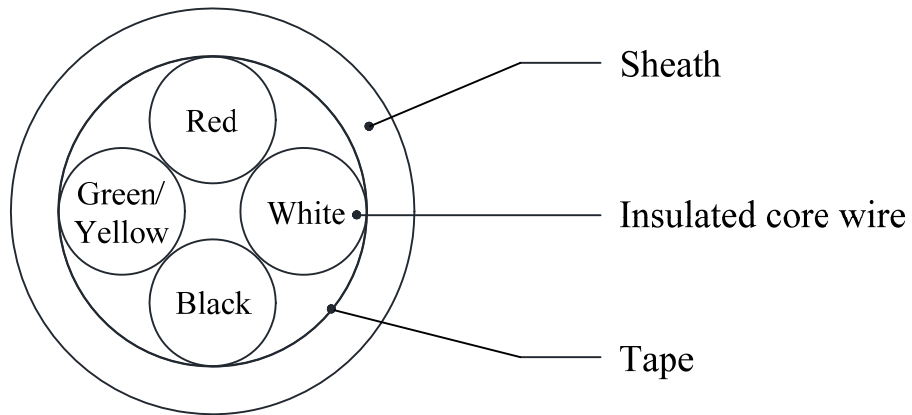
- ※ □ is a figure from 1 to 30.
- ※ ■ is cable lead out direction from A1, A2, A3, A4.
- ※ ○ is wire thickness from none, L.
- ※ ××××××× are the serial number for seven digits.

7. STRUCTURE AND CHARACTERISTICS

| Item | | Unit | Specification | |
|-----------------------------|-------------------------------|----------------|--|--------------|
| | | | L | LL |
| Structure | | — | AWG12×4C | AWG10×4C |
| Conductor | Conductor size | — | AWG12 | AWG10 |
| | Outer diameter | mm | Approx. 2.48 | Approx. 3.09 |
| Insulation | Material | — | PVC | |
| | Outer diameter | mm | Approx. 4.18 | Approx. 4.79 |
| Twisted pair | Number of insulated core wire | — | 4C | |
| Sheath | Material | — | Flame resisting PVC | |
| | Color | — | Black | |
| Overall diameter | | mm | Approx.13.6 | Approx. 13.7 |
| Electrical characteristics | Insulation resistance | MΩ · km | Over 10 | |
| | Withstand voltage | V for 1 minute | AC2000 | |
| Operating temperature range | | °C | -10~+60 (without condensation) | |
| Minimum bend radius | | mm | 6 times the overall diameter | |
| Flame retardant | | — | UL1581 VW-1 | |
| Connector | Servo amplifier side | | — | |
| | Servo motor side | Type | DDK Ltd. CE05-8A24-10SD-D-BAS (Angle Plug) CE3057-16A-2-D (Waterproof Cable Clamp) | |
| | | IP rating | IP67 ^{*1} | |

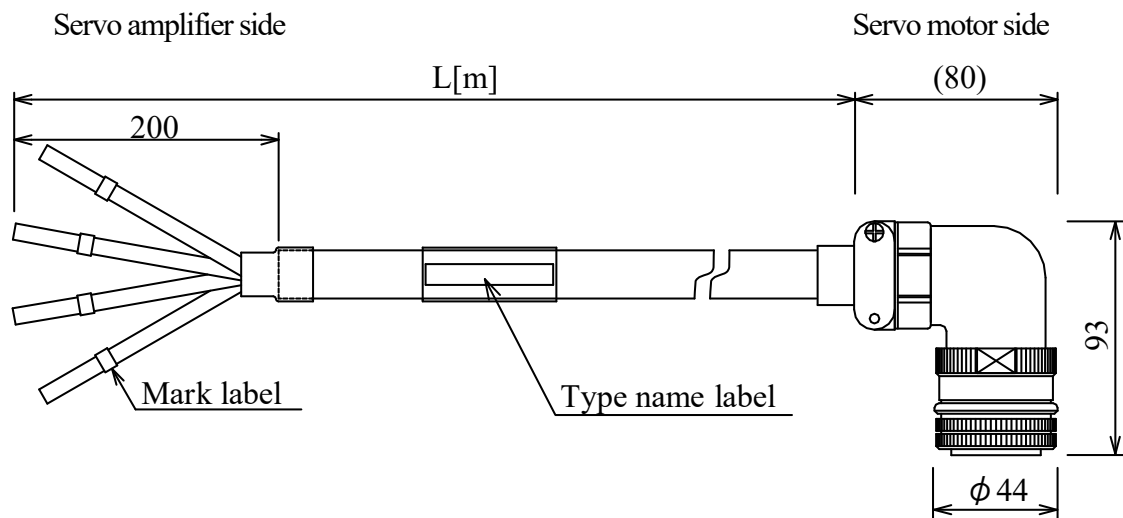
*1 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

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 |
| E | Green / Yellow |